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Chain SC North Spottish, Green 35.3 (corrected), Purple 60.28 (corrected). Survey work abould require two days after which rock dumping will commence for approximately four wacks over parts of this section of significant. The vessel 'FRANS' frequently lays to two section of pipeline.

The vessel 'FRANS' frequently lays to two sections, the cables of which extend 550 metres up-current from the vessel. A wide barth is requested

Notice to Mariners ROCK DUMPING ON SHELL EXPRO'S GASLINE We are continuing to dump rock over the FLAGs gastine in the follow

DECCA MAINCHAIN &C CO-ORDINATES OREEN D 32.74 GREEN D 33.69 PURPLE H 62.47
GREEN D 34.40 PURPLE H 61.36
GREEN D 34.67 PURPLE H 61.39

SECTION BRAVO

SECTION CHARLIE

SECTION DELTA

GREEN D 35.68 PURPLE H 68.00 GREEN D 37.11 PURPLE H 62.36 This operation is being carried out by the barge "Frans" and will now continue into February. The vessel employed frequently lays to two anchors, the cables of which extend 550 metres up current from the vessel. A wide berth is

OFFICIAL Notice — Proposal to change a ship's name. I David William John Johnston of "Sea Breezes," Harbour Street, Girvan, Ayrshire, owner of the fishing boat "Vernal" of Benff, official number 131891 of gross tonnage 71 tons, of registered tonnage 41 tons, previously owned by "Dunham Marine Services (Glasson) Ltd.," of Glasson Dock, Lancashire, propose to change her name to "Livilhood" and to register her at Ayr. Any objections must be sent to the Registrar General of Shipping and Seamen, Llantisant Road, Cardiff CF5 2YS within seven days of the appearance of this advertisement. Signed D. W. J. Johnston, Date 8th May, 1978.

01-353 6961 Telex: 21977 and dictate your Classified

GREEN D 36.03 PURPLE H 80.30

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Ad. for next week's issue.

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(£2100 to £2540 plus supplements — cerrently under mint Officer in the Sen Fisheries Inspectorate. QUALIFICATIONS: Applicants must be at least 16 years

of age at 31 December 1978 and passes in at least 5 subjects at "Ordinary" (or a higher) loyel in the SCE, GCE or corresponding examinations would be desirable. A good knowledge of the Scottleh fishing industry or experience of sea-fishing or 48going would also be an advantage.

DUTIES: Mainly defected, including the collection of fisher atotistics and market sumpling and technical duties conserved with the administration and enforcement of See Fighters.

SALARY: £2,100 to £2,540. In addition supplement E313.20 per minum and 5% of total earnings subject to a minimum of £130.60 per annum and a maximum of £206.60

por annum are payable to officers aged 18 or over. Proportionately lower supplements are payable to officers under 18. The salary scale is currently under review. Application forms and further details may be obtained by writing to Scottish Office, Personnel Division, Room 404. 16 Waterloo Place, Edinburgh EH1 3DN or telephoning 031 557 2080 Ext. 283/248. Please quote PM(PTS)3/16/1878. Applications from registered disabled persons will be considered.

CLOSING DATE for receipt of completed applications forms is 2 June 1978 DEPARTMENT OF AGRICULTURE AND FISHERIES FOR SCOTLAND

Crew loses

May 26, 1978

pers have been fined a total of ordered. This was the first time £31,200 for illegal fishing in the British sector of the EEC 200-mile limited. The arrests involved an RAF. Nimrod and a helicopter.

A court at Milford Haven imposed the fines after hearing they

an RAF Nimrod plane has been involved in the arrest of a foreign fishing vessel.

Flight Lieutenant B. Ware, pilot of the Nimrod on fishery protection patrol, spotted the trawler 28 miles south-west of St. Anne's Head in the early hours of

Skipper Jesus Anguirrechea of Clizalde Argia admitted fishing without a licence, fishing with il-

St. Luke's crew on a shopping trip at Sunderland to replace lost clothing THE CREW of the 180ft. Lowestoft side trawler St. Luke abandoned ship in a hurry on Thursday last week after she had been lifted out of the water by an ex-

the water by an ex-

The crew was hauling 160 hiles east of the River Tyne at dawn when she netted a

Skipper Basil Bowler said:

"We were hauling when an explosion lifted the ship up. It was caused by a mine or bomb—something like that.

"We abandoned ship imadiately we were taking in bomuch water. There were no caused or an incomplete the said of the said

Skipper Bowler and the mate, crew, 58-year-old cook largest trawlers in the B. Salter, went back to the Ronald Reynolds, said: "We Lowestoft fleet — was owned sinking ship about the Ronald Reynolds, said: "We by the Colne Fishing Co. She

aboard a German yacht.

Clive Howlett, a 21-yearights on and the gear in the imelhouse was shattered."
The only injuries suffered by the 11-man crew were damaged ankles. A miracle.

After taking to two liferafts with the rest of the crew.

Also aboard a German yacht.

Clive Howlett, a 21-yearold deckhand, said: "When the explosion happened we were thrown against the casting. The mate shouted to get on deck and the liferafts were launched."

The oldest member of the crew.

The oldest member of the crew.

They could hear ships and aircraft searching for them, but thick fog delayed their rescue for five hours.

Ten merchant vessesl, six fishing boats, one warship, and looking out for passing achievement. We were still in sight of the trawler when she sank. We spent our time just talking and looking out for passing achievement.



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EXCHANGE EXCHANGE Seconds of the hydraulic organization in the hydraulic organization in the hydrau in the hy

Published by Arthur J. Heighway Publications Ltd., 110 Fleet Street, London, EC4, Printed by Tracker Web Offset Limited, Heartor Gate Estate, Heartor, Derbyshire, Tell. 07737 87331

Now, in their mid-water trawling role, they have been coming into Norwegian west coast meal plant harbours to land catches of 750, 1,000 and up to nearly 2,000 tons.

tons — and by now it has probably gone past 100,000 tons. Norway's previous best blue whiting total was 38,000 tons last

Among the top ships is Libes completed earlier this year. With a length of 234 ft. and a speed of 17.5 knots from her 3,600 hp engine, she is Norway's largest and fastest fishing vessel. In less than three weeks of fishing in May, she brought in 3,500 tons in

Another new ship, *Neloyveer*, came in twice in the same "We believe we have period with a total of 3,600 tons. 400 tons of this was taken in produced an acceptable product", he added.

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NET HAULERS WINCHES **PUMPS**

success and have appointed

Massive hauls Norway's Investment in high-powered purse seines/travelers is paying off in a buge harvest of blue whitting. Hauls up to 400 tons are being made. As the apring concentrations moved north to around the Faroes, they ran into a Norwagian fleet of more than 40 ships. DACCEC TEST pout box extension

fishermen could be on the verge of a massive new outlet whiting. This follows successful trials to produce them incompletely the seawater task showed that deteriors showed that deteriors and the seawater task showed that deteriors and the seawater task showed that deteriors and the seawater task showed that deteriors are the seawater tasks and the seawater tasks are the seawater tasks and the seawater tasks are the for blue whiting. This follows successful trials to produce themine-At the end of last week the total landing was touching 85,000 ed fish product "surimi" for the Japanese market.

"We have done all we can here on surimi, said a spokesman for the White Fish Authority which has been carrying out development work at the Rolf Olsen factory in Stor-

Although the problem two Northern Ireland of blue whiting files; of price still has to be boats, Green Islc and Green now machine, the Base resolved, the WFA stressed that the next trials will

The fish for surimi skinning unit, has reconresolved, the WFA stress- Field.

progressing at 80

processor needed

have to be fully commer- production has been land- ly been installed at the cial and a processor is ed mainly from these factory. Despite some in needed to come in now boats boxed in ice. Frozen itial teething problem ready for next season.

fish has been used the machine is now
Chartered to fish for successfully, but freezing producing an acceptable
the blue whiting trials are must be done very quickly fillet.

set in rapidly,

THE Rolf Olsen factory at Stornoway has been given a new lease of life. Redundancy notices issued three months ago to the nine employees of the fish processing factory of Rolf Olsen (Stornoway) Ltd. have been withdrawn.

stornoway, withdrawn.

The notices were originally served because of the poor herring landings and high prices. This year was the firm's worst season since it set

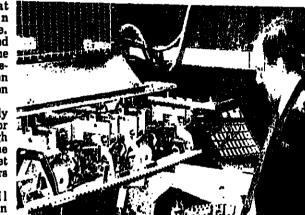
The manager, Neil Stewart, said that it had been decided to withdraw the redundancy notices because of the need to keep the ice plant going and for the WFA experiments on blue whiting being carried out at the plant. Because of the trials the

firm had already taken on an extra 14 workers and would probably hire another 12

A NEW seiner record set at Grimsby on Tuesday was broken the next day. Guldborg (Sk. Hans Kristensen) hit a new high of \$13,426 from 448-kits of best North Sea cod after a 14-day

trip on Tuesday.

Then another Consolidated Fisheries seiner Rosenborg (Sk. Niels Peter Jensen), came in with 499-kits to clock-up £13,426 after 14 days. She had cod and codi-



Hull trawler owner Tom Boyd Jnr. takes a look at the MW Baader 121 fitteter at the Rolf Olsen factory last week.

FOR A LONG time now the future of the White Fish Authority has looked uncertain. When the authority moved headquarters from London by Edinburgh five years ago — with the loss of some of its key staff — there were plenty of perple in the industry forecasting that this was the beginning of the end.

What has, in fact, happened is quite reverse. The move to Scotland and a close working relationship with the Herring Industry Board has given the authority a broader footing in the industry. in the industry. With the centre of British fishing moving steadily north, the relocation to Ediaburgh now looks to be an inspired decision.

On Humbard J. British William Con Humbard J. British Will Con Humbard J. British William Con Humbard J. Br

On Humberside, the importance of the WEA's Industrial Development Unit has been under in the been under the bee ed by the heavy calls on its services from outside the UK. The IDU could also be about a cover itself in glory with its work on products a blue whiting product suitable for the Japanest market

The blue whiting project has been an example f what research and development should be all the should about. Taking a potential vast resource, what research and development should about. Taking a potential vast resource, where we not and found a possible marked it. Now, after supervising successful productions, the WFA is ready to bow out in the that commercial operation will move it, that commercial operation will move it. The Government's review of the future white Fish Authority — due last year postponed. No doubt this was to take account the recommendations of the Expenditure.

postponed. No doubt this was to take away the recommendations of the Expenditure mittee which reported on the fishing indistribute earlier this month.

The result of this report has given a be found to the hopes of the WFA and HIB, when the recommended that both bodies deserved port and encouragement.

While was know that there are original than the recommended that there are original to the control of the c

port and encouragement.

While we know that there are critically WFA, it might be time to pause and thin the alternative could be. The thought of Ministry involvement in the fishing to sive the should be just the thing to give the support and encouragement recommendations.

that, while there were benefits for some British fishermen inside the box. Particularly hit are areas hope in hell' statement and south of the Shetlands, where for his defeatist attitude on the Danish industrial fleet is FEOGA grants.

> Gilbert Buchan, president of the Scottish Fishermen's Federation. He suggested that the box should be extended from 56° to 60° north and from 2° east

This view was backed by Jonathon Watson Hall, president of the British Fishing Federation, who also wanted requesting financial aid to help Grimsby through its present transitional more than one type of net. unanimous reply.

concentrating its efforts on the

north-end of the box, said

Landings of some 2,500 tons of cod from Greenland that the cold storage facilities by German trawlers was and processing units at Grimsby are amongst the largest anywhere in Europe. The said the Grimsby industry with aver 2 000 activations of the committee.

The Berlin meeting of ICES had agreed that there dustry with over 2,000 active ermen, 10,000 processors engaged in merchanting, plus from the Greenland area, h other workers in an-

many other workers in an-dilary industries, was still The report on the fishing in dustry by the House of Comthe main employers of labour mons Expenditure Com-"The one main thing the mittee was described as industry is striving to do is to 'timely' by Mr. Buchan. He keep expertise together and hoped that the Government maintain the outlets and dis- would note the backing it tribution system into the gave to a 50-mile limit.

Country which are vital links On the 50-mile limit in

between catcher and con- Mr. Buchan was critical o MPs John Corrie and Geof-"In this respect everything frey Rippon for suggesting possible must be done in the that this claim was out of way of financial encouragement to enable the port to ride out this difficult period," concluded Mr. Coulbeck.

others were suffering as a result of it.

GEORGE Coulbeck, the

chairman of the Grimsby

Fish Merchants' Associa-ilon, has written to MAFF

Minister, John Silkin,

phase of development. Mr. Coulbeck pointed out

Forecast times not fixed yet

Welsh, has been assured by the British Broadcasting Corporation that it will not be possible to carry on the same

changing their public wavelengths as a result of an Mr. Welsh said: "I will be international conference, writing to Arbroath Radio 4 is a long to long Fishermen's Association ask-Radio 4 is moving to long Fishermen's Association askwaye because it is our main ing that it gets in touch with letwork — it will remain on the low matters.

Setwork — it will remain on the low matters are supported by the carefully heeded when the low matter as a support of the

possible to carry on the same schedule.

"We are having discussions with the hoard of Trade, and shipping forecasts.

The BBC stated: "In November our radio networks are changing their couplies."

"The forecasts will continue to be broadcast every 24 bulletins which are vital to but, unfortunately, the fishing community."

THE 430-TON Danish industrial fishing and processing vessel Lumino (E 559) has returned to Denmark after being berthed inside the fish docks to tranship tarly summer sandeels.

Last spring Grimsby agents
Tom Sleight (F.S.) Ltd.
brought Lumino across from end of the winter sprat fishing to take pressure off the local fish meal factory which had returns to Denmark of transfers the odourless catches were heavy.
Although there are fewer mark where the process is

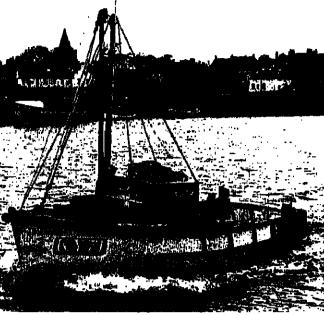
MPS were asked last week to give their backing to an extension of the North Sea pout box. At a meeting between industry representatives and the All-Party House of Commons Fisheries Committee MPs were told boat lost

Mr. Buchan expressed pleasure that funds had been los Swankie is feared lost at made available to rectify the previous unfair allocation of sea after his 26 ft. lobster boat grants, but he was concerned that this money might be regarded as a bribe for a less than favourable EEC policy on fishing.

Chairman of the Care mittee, Patrick Wall MP,

asked if the industry was prepared to stick it out for a 50-mile limit. Yes! was the unanimous reply.

Fife. because the vessel, Fear-Naught, was Kirkaldy-registered but operated from Crail.



Fife Ness coastguards Fear-Nought -- now a wreck heard a broken radio message lying in about 35ft. of water. Chairman of the Com-was taken by helicopter to at 1.15 p.m. It is thought the until nearly dark and found nittee, Patrick Wall MP, sick bay at RAF Leuchars, radio reception was poor no sign of the body.

because the vessel was so Anstruther lifeboat and are going down to inspect the several fishing boats searched wreck.

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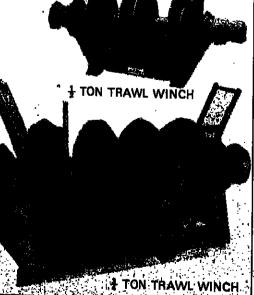
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FLEETWOOD owners have returned from a trip to France optimistic that French vessels will continue to play an important part in maintaining local supplies.

Jim Cross, president of Fleetwood Fishing Vessel Owners' Association; Mark Hamer, general manager of the FFVOA; Dennis Bond, general manager at Fleetwood for Boston Deep Sea Fisheries Ltd; and Peter Hewett, prin-cipal of the Hewett Fishing Co., all went to Lorient, Douarnenez and Concarneau.

They said that in the four

LUCKY ESCAPE

Stevens of Newlyn helps to another one. Skipper Steve footer (right) after an the boat would be a write

earlier this month.

off, but the main damage was amidships, at the turn earlier this month.

His GRP-hulled Janette Elaine was heading home to complete her fifth longline trip in a row when fog clamped down. Skipper Stevens was asleep and his

Skipper Stevens thought

of the bilge. The hull had been pushed in four inches and an internal transverse frame had detached for 6 in.

She did not take any tired crew was steering a water and was repaired course for home when she between tides while beached between tides while beached steamed on to a rock off at Newlyn.



has been having a refit before trying her luck on middle

Her sister-ship Ella

quotas ran out. She has

Both vessels were among

run at a profit in middle

They said that in the four months starting on New Year's Day, 103,692 kits were landed at Fleetwood of which 28,086 came from French vessels. The French landings have helped to keep Fleetwood open as a fishing port. Starting on New year's Day, 103,692 kits were landed at Fleetwood of which 28,086 came from French Prench landings have helped to keep Fleetwood open as a fishing port. ON STAND B 690 MIT ARE MARKETING to fish again A COMPLETE DIESEL ENGINE MARINE CONVERSION SYSTEM FOR MOST

SIZES OF SHIPS. They have the top names on display. Twin Disc gearboxes, Quincy compressors, a new propeller from Scandinavian Propellers, a whole range of International Seafarer electronics, and a Scan Autopliot. So steer yourself to stand B 690. MIT for sales, spares and repairs, anytime, anywhere.

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FLEETWOOD'S Hewett Fishing Co. is to put back into service one of its largest trawlers which has been tied up for six months because of quota restrictions on distant water grounds. The ship is the 164ft, side trawler Robert Hewett which

FRED Williams, one of the Hewett, has been working Trawlers has given has gi leading figures in Flestwood's these grounds since the firm's fishing industry for many years, Norway coast and White Sea shore-based jobs #

Mr. Williams Joined a brought in some useful Flestwood fish meal company catches and it is hoped at the age of 14 and later Robert Hewett will emulate progressed to the position of her. manager at a Warrington fish meal company. While in his the most successful ships to early 20s he began an associa- work from the port when the tion with Boston Deep Sea distant water grouds were Fisheries which was to make open to them, but their size him well-known throughout the makes them more difficult to

Fred Parkes (later Sir Fred | water areas where catches are Parkes) brought him into the lower. Boston company and Mr. The Parkes) brought him into the lower.

Boston company and Mr. The fact that their owners williams set-up its fish have enough faith to keep them working is a welcome this week to see Ministry it.

He continued as manager of sign that the port may still be Fisheries officials. the distribution side until it was able to keep two of its biggest It is hoped that, and disbanded some ways and the state of the sta disbanded some years ago. He vessels operational. continued as manager of the distribution side until it was disbanded some years ago. He became a director of Boaton and was also a board member of several other Flaetwood industry concerns. Mr. Williams leaves a widov

HENRY Smith, one of Arbroath's best known fishermen, BRIGHTON inshoromon careful and checked the six has died in Arbroath Infirmary

he skippsred his own boat, The inshoremen will now keep within four miles of the

He retired nine years ago and his son. Alex, is now the skipper.

Coast, while the beamers will stay offshore.

The agreement follows a

Mr. Smith is aurvived by his widow, three sons and eight

Soberton.

the 'ceasefire' was temporary.
Only Government legislation
would solve the problem once 59-YEAR-OLD fisherman and for all.
"The trawlers are 80 to Thomas George Lobb died on board a Newlyn, Cornwall,

was brought into harbour on shore waters and I want to see Mr. Lobb of Alverton, Pen-limit. This sort of confronta-

have come to an agree- for trammel nets like the

The worlds most comprehensive

We have a series of leafest giving considerable density all our wipers, Please wild for particulars.

adjuster. I challenge this state-ment, as I hold a certificate the only family ever to have senior to Mr. Parsons.

north-west area end, we have the only family ever to have three certificated compass ad-It is No. 80(C) obtained by justers all practicing at the one time. me by examination in London
an April 28, 1936. As you can
work out, I have held this cerillicate for 42 years.

We have the held the cerpy and long retirement.

W. G. BARR.

Compass adjusting has been Ballacollister Road, family falling with our family. Fairy Cottage, Lexey. John

committee recommendation of bilateral negotiations with Norway? To that Mr. Millan simply said that there were dif- Merchants' Associations,

Ian Sproat, Con, Abstract South, asked for confirmation of strong rumours that changes in the common fisheries policy had already been agreed in the EEC and said that by the time this agreement was announced it would be too late for the Common of the continue programme and the strong programme of the common of the continue programme of the common of the continue programme of the common of th Merchants' Associations, with Ken Beeken as secretary. The appointments were made at the association's pounded and spread unfounded rumours were acting against the interests of the fishing industry, Mr. Millan agreed. It was malicious to spread suggestions of a secretary. mons to do anything practicable about it.
Mr. Millan said it was nonsense to suggest there was a secret agreement. There had malicious to spread suggestions of a secret agreement — malicious in terms of the House and the industry.

been no agreement at all. Mr. Sproat also asked what action was be-

agreement reached in Europe — but with an announcement held

back for a matter of weeks — were strongly denied in the Commons

last week by Bruce Millan,

Ian Sproat, Con, Aberdeen South, asked

Secretary of State for Scotland.

sandeels worth £37,854, com-pared with a total of only 3,900 cwt. of edible species. Of some categories of cod,

Grimsby has been elected chairman of the Federation of British Port Wholesale Fish

HULL'S former top-earning stern trawler Hammond nnes is now on the way to fish as a research ship from Canada. The former Newington Co. recordbreaker has been renamed Lady Hammond.

BOTH Hastings lifeboats Bill Barber were launched last week when a fishing boat ran into trouble off Bexhill. Marie J. Leach, owned by Mr. D. Holroyd of Eastbourne, had engine LETTERS ailure. She was towed in.

continue to mean shortages of and rope worth £20, have white fish for Shetland been stolen from Lancing week 24 industrial arrivals landed 27,000 tons of THE EEC Council of Ministers has agreed to

haddock and hake for processing by a third. The months from July 1, 1978. It new rate of duty will be ten will be reviewed in the GEORGE COULBECK of per cent and will run for six Autumn.

Assistant Editor: Scottish correspondent: Advertisement Director:

Fred Purssell

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Not cheap alternative

RIR. In response to the letter by John E. Peters headed 'Core hulls — no 'seal of aproval' (Fishing News, May 19), the assumption is that he does not approve of core hulls lthough Cygnus has built one for Skipper Colin Parker.

of insulation required. This

Could it be that the White 2. The saving of space is fish Authority, when con- considerable and of particular sidering the interests of Mr. benefit in a fish hold where a farker with his GM37 built in smooth, easily cleaned surface town sandwich (for a mould is desirable, if a high degree of the interest of the outer thermal insulation is required in sug), insisted that the outer thermal insulation is required in nate should be the same a fish hold where the craft is hickness as a single skin operating in the tropics, it is a laminate because, as the hull relatively simple matter to appwas used as a plug, it may not ly additional cores and have had the protection of a gel laminate to achieve the degree

With regard to Mr. Peters' method of construction is being comments concerning the offered for the working decks thickness of the outer skin of a for the same reasons. tweel' construction, I am In- 3. The work involvement for dined to agree with him that it the fitting out yard is much is desirable to have the outer reduced without the complexiskin considerably thicker than ty of longitudinal and the inner skin, but there are transverse stiffeners. The addiffering schools of thought ditional work that, and I quote amongst the authoritative Mr. Peters, "Every through-hull fitting, e.g., transducers, bilge

The introduction of a core discharges, bilge keels. material in GRP workboat con- seacocks, etc., has to have the struction does not in my opi- balsa removed and wood bondnion constitute a 'minor ed in," is largely removed as revolution'. (It is in British the form that Versatility is fishing boat construction — adopting has a solid laminate Ed.J. It is approved by Lloyds from the keel to a line parallel and many other authorities and just below the waterline. throughout the world for There is a gradual transition workboat construction. It has from the solid to the core. been used in the USA for 20 Taking the points raised in

years and is on the increase. the last two paragraphs of Mr. The same method of con- Peters' letter to the editor: Verfruction is used by the French satility is currently using Baltek builders, Societe Tecimer at St. 'Countourcore', a material ap-Nezaire, for workboat hulls up proved by Lloyds, as are all the to 100ft. in length and many other materials in our hull conother GRP boat building com- struction.

Versatility workboats are material (the most important oullt to a high commercial stan-part of the procedure) ensures dard whether they be of the total encapsulation of each vaditional form or of core con-divution. The beat technical balsa before it is applied to the advice is siways sort and last two layers of freshly thereughly tested before emdeposited mat, thus the risk of barking on any new materials waterlogging in the event of or innovations and our usual damage is much reduced.

high standards will be main- All we GRP moulders are

aware that there are many core It is not a cheaper form of materials available to us; there construction when compared are pros and cons with all with the more traditional form forms of boat construction and of GRP boatbuilding. The that goes for wood, concrete, essons that Versatility are steel and GRP too.

form of GRP boat construction specification. has always been a p The introduction of a core does MIKE HAYNES. does go a long way towards it. Sussex.

offering this form of construclon as an alternative ere:

the material and the 1. Thermal and acoustic in- workmanship that counts, linkbilation in the more traditional ed with a sound design and

The application of the

not remove this problem, but it Versatility Workboats, Rye,

Senior certificate

SIR, Your article Fishing News. My father, brother and myself

May 12, 'Swinging Bob bows were all practising throughout

out states that Mr. Parsons is the war on Merseyelde and the

the senior certificated compass north-west area and, to the

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Mr. Smith went to see as a boy on his father's boat before he skippared his away box.

The course to an agree- for trammel new ment with Portsmouth don't think it was delibered trawlermen over fishing he said.

He was former president of Arbroath Fish Merchants' Charles protection ship HMS Sussex chief fisheries of ficer, Jim Howell, stressed

90ft. long, with up to 600hp engines, he said.
"They are too big for intrawler last weekend. His body

zance, was engineer on the tion has happened before and the trawler Excellent.

He was found dead in his bunk. Dr. M. E. H. Hersant went to the harbour when the trawler arrived and the body was taken to the West Cornwall Hospital mortuary. I have no doubt it will happen

not satisfied with the

District secretary of the

Amalgamated Union Engineering Workers, Albert Salmon, said after a ment

on May 17 between BUT

various union officials the

there would have to be a car

iron case' before he cal

accept BUT's decision.

He said he was concernd BUT may leave Grinsin

It is hoped that, as a result

BUT may reconsider.

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Group looks at

boat reporting

boats up for survey. There are keeping speakers.

Still 'a number of boats It was decided to remit this Dutchman, Mynheer L.

(7.3, 8.8 and 11.0 metres)

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Stand

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satisfactory cost-effective alarms and the preparation of device has been developed guidance to the industry; changing the law could not be justified.

A number of fishing vessel crews; and radio reowners are now to be finally warned by the Department of Trade for not putting their tory performance of watchboats up for survey. There are still "a number of boats

It was decided to remit this of the first paper was by a still "a number of boats

It was decided to remit this of the first paper was by a still "a number of boats

Take for not putting their tory performance of watch still "a number of boats

The first paper was by a still "a number of boats

The first paper was by a still "a number of boats of moisture still "a number of boats of the damage of processing to try to pin-point the peak of the damage.

He said that while unused fishery.

He said that while the peak of the damage.

The said that while of the pack of the damage.

It was found that the biggest percentage of mortality occurred in the washer, where in the peak of the damage.

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It was found that the biggest percentage of mortality occurred in the peak of the damage.

It was found that the biggest percentage of mortality occurred in the peak of the damage and occurred in the peak of the dam

THE FISHING Industry
Safety Group is forming a
sub-group to study the
problems of fishing vessel
position reporting.

The group, meeting in London on May 18, noted the
practical difficulties of reporting and discussed the various
alternatives. Then, it decided
the subject needed to be examined in depth.

Mandatory fitting of
EPIRBS (emergency position indicating radio beacons) was
considered by the group. It
decided, however, that until a
satisfactory cost-effective
device has been developed changing the law could not be
justified.

A number of fishing vessel
overse are now to kee finally.

The group took note of
Chapter 6 of the report by the
Trade and Industry Subcommittee of the House of
Commons Expenditure Committee, which dealt with the
Department of Trade's safety surveys for inshore vessels.

The report's conclusion that the survey arrangements are now working satisfactorily was endorsed.

Other matters considered were: watch-keeping procedures including watch alarms and the preparation of guidance to the industry; proposed new certificates of competency for skippers and crews; and radio re
The group took note of Chapter 6 of the report by the Trade and Industry Sub-committee of the House of Commons Expenditure Committee, which dealt with the Department of Trade's safety surveys for inshore vessels.

The report's conclusion that the survey arrangements are now working satisfactorily was endorsed.

Other matters considered were at Fishmongers thall, London.

The conference still retains its power to attract not only delegates but speakers from many parts of the world. The form of the world are to the industry; proposed new certificates of competency for skippers and crews; and radio re-

which persisted in not coming last question to the Maritime Westbroek, an engineer who through hair-line cracks. forward for survey." There Radio Advisory Committee. had worked on the Examinations had been

its power to attract not only mechanisation of the Dutch

damage and loss of moisture shell.

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spiral knives, accounts for skin divers to reserve numer, a further five per cent of the areas in which no form d shell damage.

Even the method of dredgng mussels can result in a sizeable proportion that will not live for the 72 hours need that it becomes economically ed for distribution to the shops.

Research

It was to these points that sizes — involves no hear Mynheer Westbrock fees, therefore no revenus suggested that research This has been carried to be cheer is my suggested that research should be directed, together with codes of practice, that would avoid the dropping of mussels — whether individual or bagged — even the few inches from some pre-dating Magnetic declusters to washer; all carta — and others formed a shocks affected adversely the keepability of the mussel regulating order, whereby is

trace.

Mynheor F. M. Franken
explained how his firm of
agricultural engineers had been drawn into the business of processing mussels while his younger colleague, Th. W. Ciercmans, went into more technical detail.

Ite said that although cooking times varied approximation of rafts nor distinct times varied approximate.

the said that although cooking times varied according to the age and culture method of the mussels, an average time for loading the retorts, cooking and unloading is 150 seconds, with 130 deg. being achieved within the retort.

Meats are separated from the shell in brine tanks and then washed to remove the excess salt; similar processing

Achieved

He posed the question: native species to those firm "Why have we achieved so little in mariculture with so destroyed."

The posed the question: native species to those firm the post of t

"Why have we achieved so little in mariculture with so many natural advantages?"

His first answer was to contrast the attitudes of other national governments with our own. Japan, whose people gain 53 per cent of their protein requirements from fish, are prepared to spend 200,000,000 yen on one project of creating artificial reefs.

Fish production in Japan has priority over navigational and recreational uses of water. There are no planning nor leasing problems for the Japanese fish farmer.

The Dutch Government took on the immense task of British industry

then washed to remove the excess salt; similar processing apparatus for winkles and cockles is being developed by his company.

The chairman of the association, Cyril Lucas, an oyster planter from the Isle of Wight, spoke on the cultivation of natural stocks.

The use of the entire war column should be considered and licensing brought in the provide revenue to be based on research.

We should consider their

on research. We should consider their troduction of exotic species or the re-introduction of

The declustering machine, agreements with full-tine another rotary cylinder with fishermen, part-times and fishing was allowed.
What happens at home?
The British are encounged

to fish a resource to the point leaving the fish to recorn a its own slow pace, if at all

Our attempts at control-largely based on minima

keepability of the mussel.

The next speakers, also
Dutchmen, were interested in
the cooking and shelling of
mussels for the preserved
trade.

Tesult of a several
regulating order, whereby i
regulat a fishormen's co-operative

Frustrating

Such an order, howerd relates only to the seabed and

New Caledonia.

aquaculture industry.

Knowiedae

Spotting disease is one of the skills taught at the Inverneas Technical College, where the Highlands and is sponsoring a year's course for fish farming husbandry and even a girl is taking part.

Until now, most training at done on the farm but, with the proliferation of farms, experience is becoming thinly spread and many managers years' experience to call upon. There are now some 158 employed in fish farming in the HIDB and it is felt that sparsants with some basic

Design

Other papers were given by Dr. J. Martin on shellfish research at the Marine Instead the Marine of the WFA on materials and design of fishing boats.

Dr. David Jones of Bangor spoke on artificial diets in large valuating the State of Maine, told the conference of shellfish agriculture in his part of the world.

All this, plus a static disput by the WFA and a fork buffet supper in the Banqueting Hall of Fishmongers Hall — and every delegate would agree that he got, his money's worth.

Professor Charles Bland, Above: dredging can result in a from the University of East large proportion of the mussels Carolina, said that the projected world shortage of edible fish meant that the USA

had to increase from its pre- training coupled with pracsent level of two per cent of tical work on a variety of inrequirements presently stallations. provided by the American Therefore, the course i

divided into four-week blocks of college work dealing with biology, hydrology, fish pathology and engineering

practice.
In the latter subject the He said that the barriers to emphasis is on the use of hard such an expansion are in our tools, repairs and how to ser-

incomplete knowledge of the vice outboard motors.

ife cycle of many of the reatures we wish to grow.

Nor did we know the exact different fish rearing esenvironmental requirements tablishments and the for their culture and, lastly, students careful logging of his we have a very incomplete practical work is an imporknowledge of the disease tant factor in his final assessproblems that artificial ment.

Professor Bland reviewed a dustry likes the idea because further of projects — both experimental and commercial have their new jobs lined-up that are in the latter of the 12 students already have their new jobs lined-up the force the course has even

western hemisphere, commending in particular the
french efforts in Tahiti and

Sen College to the

western hemisphere, comended.

Mr. C. H. Aldridge, the
french efforts in Tahiti and

course co-ordinator from the HIDB, must hope for the But, in some commercial same degree of success for the operations, disease is proving short courses he intends to a major problem. In one run for people already at Caribbean shrimp farm losses work in the industry.

Caribbean shrimp farm losses due to a fungus affecting the eggs were estimated at US \$50,000 per month.

This fungus, Laqunidum fallinectes, is widesprend awide range of salinity.
Fortunately it can be controlled by Malechite Green, but in much smaller concentrations than those used in disease control on finned fish farms.

This, however, raises another problem as Malechite Green is one of those very numerous substances that the US Food & Drug Administration considers to be carcenogenic.

Spotting disease is one of the skille treatment of the Department of the Department of Environment.

Drink—'we have TRAWLER owners at Grimsby are

unhappy with the latest proposals and punishments to deal with drunken fishermen.

The plans, the most recent of many tried in recent years to combat the difficult problem of excess drinking by a minority of trawlermen, were outlined in a Government White Paper last week. They propose fines of up to £1,000, or two years maximum prison

One company spokesman said he felt the continued search for a solution by bodies outside fishing was doing nothing to solve the problem and the only answer was to ban offenders from the fishing industry for life.

"We have tried fines, short-term suspensions all sorts of threats before — including sions, all sorts of threats before — including all and we know they do not and will not

"Drunkenness is worse now than I have ever known it in Grimsby. We are forced to turn a blind eye to fishermen going away to sea 'blotto' with booze they should, in theory,

"How can you expect anyone who has peen on the bottle, as a few men do, for all the time they have in port between trips to ober up because a trawler is sailing?

"Even with all the fishermen who are sup-

to bend the rules

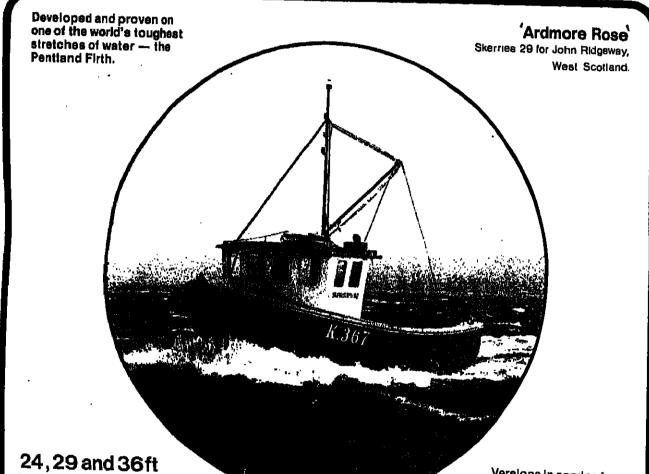
have ready made replacements waiting on the quayside just in case anyone turns up the worse for drink. To pull men off delays sailing and could cost the owners thousands. We have to bend the rules and take a chance.
"Usually they are sober by the time they

French on top

TOP vessel at Fleetwood last week was the French stern trawler Tourmalet with 1,878 kits worth £26,716.

Just behind was another French trawler, Trezien. She landed 1,142 kits for a grossing





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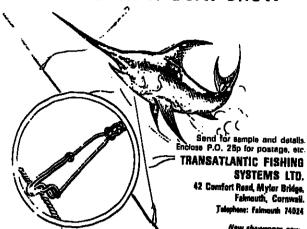
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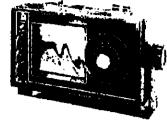
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May 26, In

May 26, 1978

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THE INTRODUCTION of the Seaveyor 36mile radar has put Poole-based Electronic Laboratories right on course with the fishing industry. Backed by eight other products in the well-known Seafarer range, this firm now has an electronic package fast making laroads into the fishing fleet.

compan

every seven minutes

don) Ltd., as it then was,

had to seek larger

premises which if found

mearby.

Meanwhile sales of the sounder had both encouraged and enabled the

firm to develop two ad-

ditional products: the Seafix direction finder and

a former church hall

omewhere in the world. Behind this success

The Seavevor has already made a big impact since it first appeared in 1976, while the earlier and maller Seascan has been copular among inshore hermen for some time and is fitted as the second rader in some larger middle-water boats. is claimed that one Seafarer product is sold

The biggest success scored so far with these radars appears to have been in Northern Ireland where boats like the 65 ft. Responsive, Twilight Star, Boy Ken II and Alliance, ı bottom trawl ing out of Portavogie, all have the Seaveyor radar as

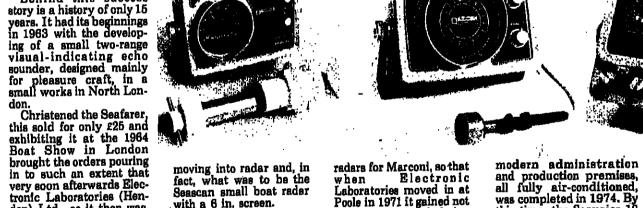
Two other Portavogie noats, the 45 ft. San atricio and the 50 ft. ruitful Harvest, both use ascan radar in their bottom trawling and prawning operations, as does the 40 ft. Boy James, lishing out of Donaghadee. Some boats working out of North Shields, like the Christine Nielsen, have Seascans installed.

ascans installed as sec-One skipper at the port who also has a big Decca set says that he likes the Seascan because it can show him gulls on the

water: 'and where there are gulls there are fish.'
So far as Scotland is concerned Electronic a new recording sounder, the Seascribe, which ex-tended the market into the Laboratories admits that penetration of the market inshore fishing industry.
Within the course penetration of the market there, particularly in the Moray Firth area, has not yet been anything like that achieved in Ireland. But it believes that by having its own stand at the Catch '78 exhibition in Aberdeen next month, as well as having its products on the stand of its Scottish distributor Alexian Electronics, will help make another year the demand for these three products had become such that the lities in the old church hall were quite inadequate and another move was iperative. This time, it was into a

new factory at Ramsgate where for a time production was able to keep up with demand until in the late. 1960s yet another search for letter premises tionics, will help make its radars and vhf better known among Scottish fishermen.
The Seafarer range is now being sold through more than 20,000 sales

search for larger premise had to be contemplated. At the same time the company had plans for



moving into radar and, in fact, what was to be the Seascan small boat radar with a 6 in. screen.

Then two things happened which opened up a new era of expansion for Electronic Laboratories. The first was the appearance on the scene of the Brocks Group of companies, ready and ing to buy a relatively small firm with an obvious growth potential.
The add

The additional resources Brocks were able to put behind Electronic Laboratories' drive and initiative were welcomed at Ramsgate despite limitations of the factory where turnover was by then nudging the £im. mark, but liable to be held about there unless greater production capacity could pe contrived.

This embarrassment was resolved by the acquisition of Astaron Electronics with its works on a 10-acre site in Poole. Astaron was engaged in manufacturing the Raymard series of marine

when Electronic
Laboratories moved in at
Poole in 1971 it gained not
only a substantial design
and manufacturing facility with ample space for further expansion, but also a nucleus of personnel with marine electronics skills, notably in the field of big-ship radar. Development of the Seascan radar went ahead (it was in went ahead (it was in production by 1970) and following the example of the original Seafarer was given a public viewing at the 1971 Boat Show. Again as with the Seafarer, the Seascan was an immediate

The old Astaron factory, however, was far from perfect in equipment and layout for Electronic Laboratories, purposes, and though it provided more elbow-room, it was from the moment of its occupation regarded as little more than a stepping stone

to better things. A new building, providing some 110,000 square feet of bright.

and production premises, all fully air-conditioned, was completed in 1974. By this time, the Seavoice 12 channel vhf and the Seafarer electro-magnetic log had been developed. Overseas development was also taking place with the formation of a German GmbH, in Hamburg, and the establishing of an associated company in the USA, Epsco Brocks, Inc., of Westwood, Mass., which markets the entire Seafarer range throughout the United States and the Maritime Provinces of

The choice of the name Seafarer for the electromagnetic log may perhaps seem a little puzzling since this was — and still is — also that of the original

echo sounder: It is also used as the family name for the whole

product range.
That original little sounder greatly improved thanks to modern directivy and techniques, has now

become Seafarer III and is

*** Above: the 36-mile Seaveyor radar-top of

from the Seafarer range at an Icelandic

Below left: Seafarer electro-magnetic

speed log. Below centre: Seafarer echo

ounder. Below right: Seascribe recording

the Seafarer range. Left: a line of radars

believed to be the world's best-seller in its class.

This may in part be ac-counted for by its price which, despite inflation is still well under double that of 1963; or could it be that the low price is the result of enlightened production methods and high-volume sales? About 333,000 Seafarer sounders are in use

By 1976, two years after the completion of the new building, the introduction of the Seacourse autopilot and the Seaveyor 36-mile rader for larger vessels had brought the Seafarer range up to its current catalogue of fine products, with turnover up to more than 23m. a year. Demand for all Seafarer.

products went up by 35 per cent last year, raising the turnover to close on

Testing of finished products for operating efficiency is of course, standard procedure for any

Turn to page 10





electronic equipment, but Electronic Laboratories is not content with this.

Every day random samples amounting to at least 10 per cent of all production are taken into quality control for subjection to environmental testing in conditions of heat, cold down to 20 degrees C., and vibration from 0 to 50 cycles at 2.5G – a trial more stringent than they would be ex-

sea anywhere in the world. After this, every completed radar is given a soak test of overnight run-ning before being passed for packing at despatch. Over half of Electronic

for export. Chowgule (Private) Ltd., India's big owners of ships and iron-ore mines, have recently been given permission by the Indian Government to diversify into deep-sea fishing and

Laboratories' output goes

are building ten new trawlers each of which is to have Seaveyor radar fitted, and Electronic Laboratories are finding radars, recording sounders, and vhf sets in the expanding fleets of other Asian, Near and Middle Eastern, and African countries.

North America, with its large numbers of seiners, shrimpers, draggers and trawlers, is perhaps the biggest single oversens the biggest single overseas market with sales of Seascan II and Seaveyor radars now running at over 1,200 a year. Seascan II is, in fact, claimed as the best selling radar of its type in

Scandinavian tishermen

are also substantial buyers of the Seavoice vhf sets, and are showing considerable interest in the more sophisticated Seaveyor radar. In Scandinavia and Singapore, the equipment is sold under the name Kelscan, by Kelvin Hughes, The

and the 12 and 61 the the German subs sold 80 radars as well a several thousands of othe Scafarer products he

On the home front, with the workmanlike Seave, or definitely moved up t compete strongly with lunger-established firms

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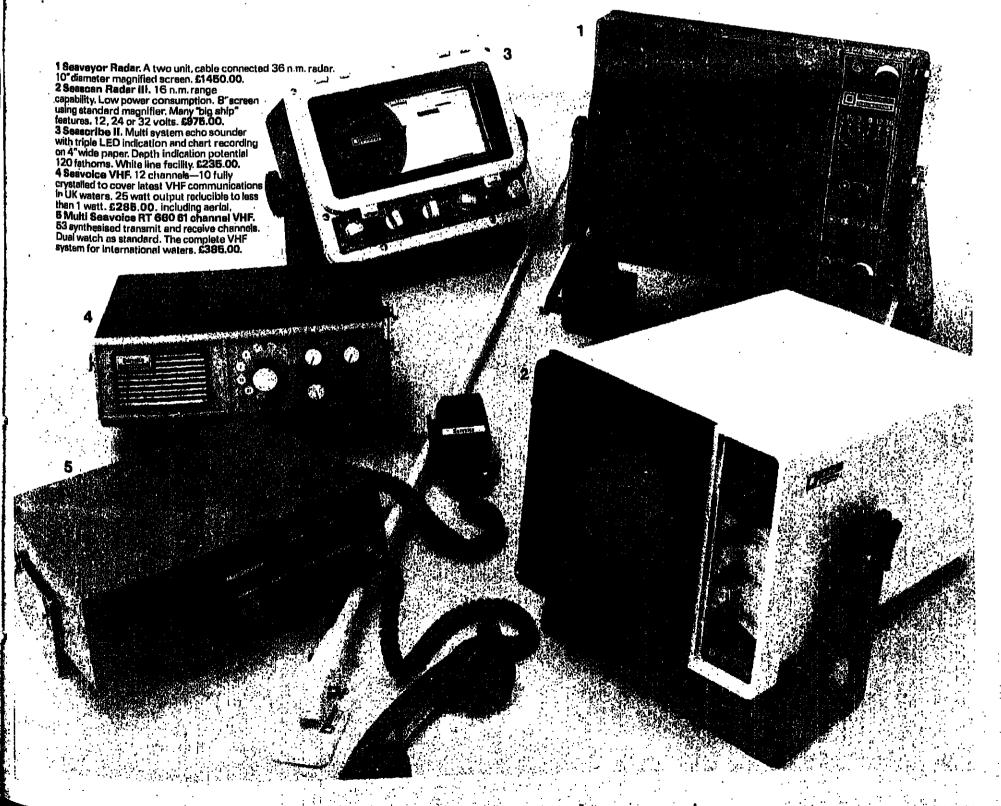
an extensive service network. So how do we explain Seafarer prices? Quite simply, By

modern production methods and volume manufacturing. Every 7 minutes, day and night, 365 days of the year, a Seafarer equipment is purchased somewhere in the world for service at sea.

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THE 'AQ' range of beamy, shallow-draught GRP craft just going into production at Porthleven, Cornwall, is attracting a large number of enquiries from fishermen wanting a

number of enquiries from fishermen wanting a competitively-priced boat.

A fully-fitted out flushing and confidently decked 27-footer—less engine, tanks and stern gear—can be bought for as little as £7,500; a larger 29 ft. version costs £8,650. Raised foredeck/forward wheelhouse alternatives are also available for a slightly higher price.

A skipper wanting to fit out his own boat from scratch will need £1,650 for the basic 27 ft. hull moulding, and £1,920 for the 29-footer.

The company responsible for this latest move on to the

for the 29-footer.

The company responsible for this latest move on to the GRP scene is Aquarius Marine Ltd, which took over the bankrupt Porthleven from Gweek, Aquarius, previously specialising in sailing Many had to be re-trained in the use of GRP, but managing catamarans, is a newcomer to fishing boat construction, and has already received more than 150 enquiries from fishermen throughout Britain.

The company responsible for middle of the day of the company to build catamaran and cruisers. It moved to builders the lines derive from a traditional fishing design, modified to reduce draft a little and to give maximum deck space for the waterline length.

The 27 ft. aft wheelhouse prototype, fitted with a marinised Leyland 2.2 litre engine, was built on spec in the use of GRP, but managing director Ray Tyler says they and "know" about fishing boats.

The company revolutely form the old Porthleven yard. Many had to be re-trained in the use of GRP, but managing director Ray Tyler says they and "know" about fishing boat construction, and has already received more than 150 enquiries from fishermen throughout Britain.

The company now employs the derive from a traditional fishing design, country Boat Show at Plymouth next week.

A second 27-footer is also diseive from the derive from a traditional fishing design, modified to reduce draft a little and to give maximum deck space for the waterline length.

The 27 ft. aft wheelhouse prototype, fitted with a marinised Leyland 2.2 litre engine, was built on spec in other derive from a traditional fishing design.

The company now employs about 28 men, most of them deck space for the waterline length.

The 27 ft. aft wheelhouse prototype, fitted with a marinised Leyland 2.2 litre engine, was built on spec in other distortions. The late of the derive from a traditional fishing design.

The company revolution, and the other traditional fishing design.

The company revolution, and the other is for exhibition at the West Country Boat Show at Plymouth next week.

A second 27-foo

prises six layers of chopped strand mat, plus two of woven roving reinforcing, giving a solid section of approximate-Extra reinforcing up to 24 oz. is used in the stem and tran-Ray Taylor (left) and Peter Clements on board the first A0?

som and throughout the steel band keel.

Box section 3 in. by 2 in. Som are spaced at 20 in. centres, each one strengthened by an additional 6 oz. overlay.

Engine bearers are timber, glassed in with heavy duty reinforcing. And deck beams are 5 in. by 2 in. iroko, supporting \(\frac{1}{2} \) in. marine ply. GRP sheathed and non-alip painted. Bulkheads are also in. marine ply.

All the early boats will have a plywood wheelhouse, although moulded units are planned.

Standard equipment in the specification includes rudder and steering system, navigation and fishing lights, compass, sacrificial anodes and full set of safety equipment.

Aquarius Marine is due to hand over its first commercial fishing vessel by the end of this month.

She is a 29-footer with several properties and the first A02. The boat is placed to for St Agnes skipper, N. C. Kent, who will use her for longlining, potting the Plymouth show is similar to the standard and charter fishing.

Built to the standard and the standard specification, the hull has a beam of 10 ft. 9 in., draught of 6 ft.

Tanks are installed for 108 globe of fuel oil.

Propulsion is by a 72 lp Thorneycroft diesel ongine turning a 20 in. by 15 in. manganose-bronze propeller through Borg-Warner 2:1 reduction gearbox.

No auxilliarios are fitted, but a hydraulic pump is mounted on the front-end of the engine to power the line hauler.

Whoelhouse equipment in-cludes 'Sailor' vhf and Martine is due to safety equipment and over its first commercial fishing vessel by the end of this month.

She is a 29-footer with the bout if required.

The Aquarius 30-fodar' the Plymouth show wising the Plymouth show wising. She is powered by a fir. the Plymouth show wising. She is powered by a fir. the Plymouth show is includes for 108 globe of 10 ft. 9 in., draught with the Plymouth show is includes of 10 ft. 9 in., draught with the Plymouth show it in t The boat is pictured (top) in Porthieven's inner herbour.

Focus turns inshore

Cosalt is able to

manufacture nets at short notice

the major international fishing exhibitions.

Participation in the last big United States Fish Expo held in Seattle, in October 1977, has helped to double Cosalt's fishing gear sales to this market in the last 18 months alone.

The company will also be prominent at 'Catch 78' in Aberdeen in June.

During the last 12 to 18 months, Cosalt's Ships Chandlery Division has purchased the long established Ayrshire firm of Control of the quality of the product from the extrusion stage right through to the finished net.

New Cosalt branches have been opened at Scarlished Ayrshire firm of Control of the quality of the product from the extrusion stage right through to the finished net.

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New Cosalt branches have been opened at Scarlished Ayrshire firm of Control of the quality of the product from the extrusion stage right through to the finished net.

New Cosalt branches have been opened at Scarlished Ayrshire firm of Control of the quality of the local fishing fleets.

All this adds up to an even better service to fishermen, and reinforces the prediction made in 1973 by Cosalt's John Ross, following his appointment as chairman, that "the future was never better!"

Gear for the 'Hammond'



THE trawler Lady Hammond, formerly the ill-based Hammond Innes, has been sold io Canada for experimental fishing. She left an her delivery trip last week, complete with

Coalt fishing gear.
Her ekipper for the voyage is Mr. Max
Baker of Nova Scotia who has a mixed
Canadian and British orew. The trawler will carry a pair of

Grimsby factory and two Ganadian Diamond-9 mild-water nets made up at the company's plant at Fraserburgh.
Throughout her earner, the 178ft long wet fisher has been consistently one of Humberside's highest carning trawlers.

She was built at Beverley in 1972 for Newington Trawlers (4)



ADVERTISEMENT SUPPLEMENT

INCREASED sales of fishing gear — particularly for inshore boats — have helped to boost turnover of the Grimsby-based Cosalt group to an all-time record. Total pre-tax profits last year reached £1 million — almost double the £1.2 mil-

llon of 1976. The group's turnover rose from £17.7 millon to £23.6 million, and exports were

up by more than £1 milion.

Cosalt's sales to the fishing industry are developing fast, despite the crippling cisis facing Britain's distant water fleet. Rigging a mid-water trawl at Fraserburgh.

This is largely the result of a whole new emphasis

on supplying the inshore stor — and on rapidly desloping exports.

Cosalt has been quick to take advantage of the sowing export demand for fishing gear as more and

more countries take on 200-mile limits. The company supplies to over 50 countries and, as the export market nows, will be stepping up its participation in most of

he major international





W & J KNOX has recently installed a special winch at its Kilbirnie factory to handle a repair on a sprat

nandie a repair on a sprat purse-seine.
The net, worked by Gallic Rose (Skipper Wattie Andrews), was purchased three seasons ago. After a lot of heavy use the bunt section wore out and now Knox is replacing it and giving the net replacing it and giving the net

a major overhaul.

This is not the first job of its kind handled by Knox, but Gallic Rose's large purse seine presented special problems, so the winch had to be installed.

The firm plans to complete the overhaul in eight to ten

International Fisheries and Marine Equipment Exhibition.

QUEEN'S LINKS, ABERDEEN. 14-18 JUNE, 1978.

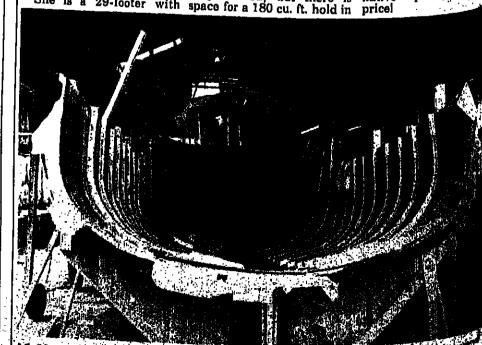
A warm welcome awaits home and overseas exhibitors and visitors to Europe's largest and most comprehensive fisheries exhibition in 1978. A record number of marine engine manufacturers will be represented. Boat builders, designers, deck and fishing gear manufacturers will be heavily represented.

Processing, packaging and refrigeration will show plenty to those interested in the handling side of the industry. Banks and marine insurance companies will be offering their many services to exhibitors and visitors alike.

Products from many parts of the world will be on display with national displays from Denmark and

EAGLE EXHIBITION CONSULTANTS LIMITED. Ludgate House, 110 Fleet Street, London EC4A 2JL. Tel: 01-353 4885/9. Telex: 21977.

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Mew high-lift pair traw skipper praises available from Grimsby Gemini'

THE Cosalt "Gemini Mk. II" pair trawl is IN RECENT years there

agency of Grimsby, has had last century, is ex-

the most effective net has been a conever used by Grimsby siderable revival of inskipper Roger Younger | terest in demersal pair of the Green Valley.

Skipper Younger, who operates through the Danbrid dates from well into the contract of the more responsively at Chimshy has been improved by the incomposition of the same at Chimshy has been improved by the incomposition of the same at Chimshy has been improved by the incomposition of the Same adapted much shallower angle to the series panel. a Gemini net since its introduction.

Apart from obtaining additional headline lift, Skipper

Apart from obtaining additional headline lift, Skipper

Apart from obtaining additional headline lift, Skipper Apart from obtaining additional headline lift, Skipper Younger says that the Mk. II

future in the UK with footropes interspaced with PVC spherical bobbins along their length. Fine ground rigs also provides a dredging of artisanal fisheries may use rubber discs only.

effect which gives a marked with boats as low as Much in developing this 10hp.

Cosalt Ltd

President: J. Carl Ross

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THE STRENGTH of its overseas markets (exports up 64 per cent to £3,200,000), an expanding demand from the off-shore oil industry (sales up over 33 per cent to £2,000,000) and the decision to extend our production and sales facilities to cater for panels. home-water fishing and general chandlery have a lt was subsequently decidenabled the Ships Chandlery Division to return record ed to insert a side panel into sales (up 40 per cent to £12,455,000) and record pre-interest profits (up 70 per cent to £1,634,000).

Both the assets and the management of W. & J.

Knox, acquired in March 1977, made a valuable contribution during the year, the experience and availability of the latter playing a decisive part in the ly used for commercial trials decision to buy in September the net and twine activities of Belfast Ropeworks. The purchase of these two former competitors has enormously strengthened ed Cosalt's position as the leading UK supplier to the fishing industry.

After the decision to open a branch in Plymouth in April last year, the opporunity arose to acquire the well-established business of Plymouth Ropes in August.

It was naturally assumed that the headline would be improved, but sea trials showed improved catches of flat-

A similar pattern ensued more recently with the opening of a branch in Felixstowe early this year roundfish as expected.

followed by the purchase last month of P. D. When a model was tested in Maestrani (Felixstowe) Ltd., which operates as ships chandlers and bonded warehousemen in that port.

It should not be thought that the improved results | Poi are attributed solely to new acquisitions. Each of the branches enjoyed a high level of demand, proving themselves once again highly adaptable, each in the

important. The enforced decline in the British distant water fishing industry, now, alas, almost sunk without trace by successive cod wars and political neglect, has been to some extent matched by a corresponding increase in fishing effort by other nations.

Cosalt has been able to meet the demand from

these expanding markets as witnessed by its in-

Against a background of general depression in the fishing industry, this Division had to work very hard for its success in 1977. The target for 1978 is to repeat that achievement.

We believe that we have the organisation and the management to achieve that

target, in what we expect to be a more difficult year.

The above is reprinted from the Chairman's statement in the Cosalt Annual Report

Gear expert Clive Radcliffe reports on the latest fishing gear development by Cosalt

from the Scandinavian Vinge sea bed.

Much in developing this type of trawl has been done

Initially a 1/10th scale nodel of the Cosalt Gemini pair-trawl was made by the author and tested in the White Fish Authority's flume

Short vee

This net was originally introduced into Grimsby and it and trailing on the sea bed. These trials highlighted th

from the wing end to the

flume tank trials that most of the 10ft, lift attained came from the lower wings which tended to stand at a very steep angle to the sea bed. Cosalt's Inshore Net

and a very successful range of box trawls selling under the

fish, and not high swimming

the flume tank, the engineer-

Earnings per share Assets per share

Excellent results

Widened

An alternative experiment used a two-seam trawl of equivalent fishing circle to the Panel trawl, but with the additional netting put into the upper and lower sections. The wings were widened and the vees cut back on a side knot, making them much deeper.

These results were also dis-astrous. The trawl had less headline height than the original, and the deeper vees resulted in netting from the lower wing end being slack

with a fishing line of 130ft.

The wings ended in a fairly short ves, cut back on a bar from the wing and training on the sea bed.

These trials highlighted the need for new thinking in the development of a high-lift pair trawl. pair trawl, although much
had been learned from the
research and fishing perforfishing conditions.

production and are average
for vessels with at least 26
from Cosalt's Inshore
Department at Grimsby.

panel but allow the top n' ower wings to open to the maximum, and result in trawl with a very good headline height. If tension is relieved and the main tension is relieved and

This led to the design of the Concord being utilised to on the top and lower bridge. produce a butterfly type then the net will at like three-bridle trawl having a more conventional box and deep side panel, which retain

throughout the wing and Promising

wing end. The trawl has much wider The new design has been modelled on behalf of Conwings with a range of varying cutting rates in the top wing. This allows a good curve to lit by the author, and the resh the early trials look way promising, with an an-ticipated headline height : to the catenary formed by the headline. The square is 26.5ft, and similar wing exmarginally deeper than in spread as the original Gental spread as the original Genia conventional wing trawls, and the bellies are marginally ex-tended as compared with the

Up to 280kg, of buoyand may be applied, and the m still appears to grip tightly a the sea bed, whereas most high lift trawl designs tends skim the sea bed very ligh

These trawis are now production and are available for vessels with at least 250

WFA's flume tank -Department at Grimsby has for some time been supplying pair trawls to the local fleet,

original Gemini

Adjustable

the maximum depth

finishes in a third vee at the



Profound

TO THE GEAR manufacturer, the White Fish Authority's flume tank in Hull is like a dream come true. It adds a whole new dimension to gear development and provides a powerful new tool to the gear technologist.

determine warp loads, effects determine warp loads, effects

So much can be achieved of towing speed, headline once a trawl has been modellheight, wing spread, door ed, simply by experimenting spread, door performance, with different modifications.

ng performance was one pointing as only a nominal amount of additional lift was amount of additional lift was focused on testing existing trawls. Several well-It was apparent, however, proven nets were modelled kites can, in some cirand examined in detail.

from all divisions

It was apparent, however, why flatfish catches had improved. The general cross section shape of the netting in the wings had changed, with the side panel appearing to consolir has always enjoyed a good demand from its overseas customers, but never have they been more

PRELIMINARY STATEMENT FOR 1977

DIVIDEND AND SCRIP ISSUE: Maximum ellowable divident, 4.9 times covered. One-for-two laste proposed: present Intention to maintain dividend on new ceptail if legislation permits.

Shipe Chandlery: Strength of oversees markets and expanding demand from offshors oil industry contributed to a record year.

Caravens: Market shars and profits improved in difficult trading conditions. Refrigeration and Air Conditioning: Another successful year.

PROSPECTS: Another good year expected, with added capacity in ships chandlery and caraven divisions coming on stream.

up 83% up 67% up 33% up 66%

rousonably simple so that ropairs at sea could be easily and quickly carried out Four versions of the Jumbs

range were designed with headline lengths of 80, 100, The tank itself is the trawl. Various modifications largest of its kind in the were carried out and a new world. Larger than normal model made to the revised scale models can be tested to specification.

The tank itself is the trawl. Various modifications in the specification and the specification.

The tank itself is the trawl. Various modifications in the specification in the specification.

The tank itself is the trawl. Various modifications in the specification in the specification.

The tank itself is the trawl. Various modifications in the specification in the specification.

The tank itself is the trawl. Various modifications in the specification in the specification in the specification. Of these, three were actually modelled and tank tealed

First impressions, as the trawl settles into the fishing position, is that its talloring looks good. There are virtually no ripples of slack neiting and the maghes throughout and the meshes through the trawl all settle in

regular diamond shapes.
Excellent headline heights
were achieved, and the ten
dancy of some high lift trans The number of floats can have a profound effect on lift;

numberless and intriguing.

Many questions can be posed and answered in a short time by simple modifications. The effects of faulty rigging, bad net fixing or incorrect wire lengths are easily highlighted.

The new Jumbo range of high-lift trawls was developed entirely in the flume tank by Cosalt.

Points which had to be conditionally and commers should contain the flume tank by Crimsby.

Points which had to be considered at the design stage More trawl models at were good net tailoring with der construction, but the week and netting tention in the impatible throughout the trawl and future as far as heavy regular taper rates, avoiding gear is concerned to the gear is concerned to

Kilbirnie to sell complete purse nets

W & J KNOX will be selling fully-rigged purse seines by 1979.

The company is already a major supplier of purse seine repair panels. And many of its staff who will be working on the purse nets are ex-perienced in making ring nets — until recently an important

industry at Kilbirnie.

Knox is also stepping up production of its netting for production of its heating parels.

This decision, made a year ago, has been reinforced by a bulk order for panels from a eading Norwegian manu-

An in-depth survey of the purse seine fleet in Britain has established a requirement for a UK-based net repair depot. Knox is, therefore, modifying its premises and installing equipment for the handling of these nets.

The picture shows Knox staff preparing purse seine

panels for shipment to

Keeping Gourock catching

W. & J. KNOX'S involve ment in trawl manufacture really got moving in 1975 when the company took over production of Gourock Ropeworks'

For several years Gourock had not produced its own netting but purchased by the ale from other manufacturen including Knox. It did have vast expertise in trawl and seine design and construction, going back to the early days when it was the first British manufacturer of the original wing trawls.

two, that Knox was going to lose a customer.

David McGeorge, manager of the net loft with 25 years' experience with Gourock joined Knox and kept th ourock name alive. Since coming to Kilbirnie

Mr. McGeorge has worked protners—is alongside two highly ex- end product.

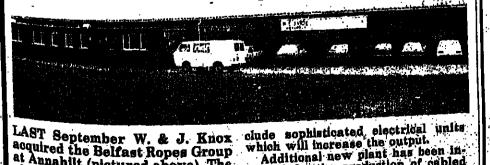
has grown into a successful

In 1778 the Knox brothers began to spin the flax they farmed in Ayrshire. They produced linen yarn, braided twine and nets. Today, 200 years later, there is still a parallel. Where the farmer sowed his seeds, the present Two things were apparent: one, that there was still a demand for Gourock trawls; aranules to extrude in its me granules to extrude in its modern Northern Ireland factory.

What has changed — beyond recognition and beyond the wildest dreams of the Knox brothers — is the demand for the

erienced former skippers — Today Knox nets and twines are undy McCrindle and David Today Knox nets and twines are These three men formed the initial spearhead of what has grown into a successful Britain and go out to more than 50 countries world-wide.

Yarns and twines from Annahilt



at Annahilt (pictured above). The plant makes a wide range of braided and twisted polyethylene monofilament yarns and twines. The company is now up-dating the

extrusion section and major replacement parts are being fitted. These in-

Additional new plant has been in-stalled for the production of cabled

nylon twines.
The machinery is a supplement to the production of the fine to medium twine range at Kilbirnie, as opposed to Annahit where the medium to heavy range is produced.

Revived interest in an old technique

revolutionised the in-dustry, Knox installed modern looms designed shallow botton specially for weaving dant wrecks. nylon monofilament. For many years the

vast Canadian cod and

escalation of fuel costs to cage with have led to a re-awakened

Aberdeenshire. In recent years the requirement has been almost ex-IF THERE is a fishing method that has remained basically unchanged, it is gill netting.

When synthetic fibres

has been almost exclusively from England, clusively from England, with the emphasis on the same nets in Britain. South-coast.

Specially designed and The very large Irish hung for fishing above salmon fishery is an impactance for the same nets in Britain.

Trammel nets are also nylon net is still liked in much on the increase and Donegal and the north.

are proving most a preference for the successful in the North "single throw" or "slack Sea with its similar spun" type of nylon net in shallow bottom and abun- the south, but the heavier conventional twisted

Knox is now finding

demand up the east coast as far north as

Norwegian salmon fisheries were supplied by Kilbirnie, the only UK monofilament net the fish farmer manufacturer in the

Today, gill nets are TO KEEP up to date with forms of dip and drag nets are still supplied to the the rapidly expanding fish available.

Know not only offers conlimited number of licens- farm industry, W & J

ed salmon fishermen in Knox is able to produce ting, but knitted knotless netthe north-east of England. cage nets to customer ting to cut down scaling and The depletion of the specification and a finish- eye damage. These come in a trawling grounds and the ed cage with floatation wide range for all fish sizes.

At present all Knox care interest in gill nets.

Knox — a major both salt and fresh water. If bitumen preservative. It is required, they are supplied to modify the plant cod nets to Denmark for the Baltic fishery — now the security nets. All foulant treatment also.

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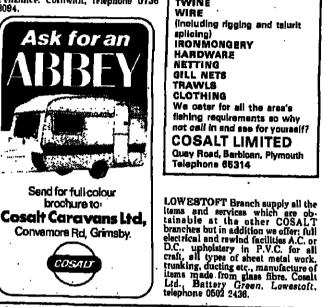
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flat fish on the seabed

Detecting

May 26, 1978

"WE ARE fitting out a boat which we intend to use mainly for trawling for flat fish. What sort of echo sounder is best for detecting fish on or close

to the bottom?"

A sounder which incorporates white, grey, Dyna or Contour line facilities is undoubtedly best for the purpose. Such an instrument makes it easier to discern echoes from fish which are sales and service depots to very close to the bottom — so close as to be below the Southeadline height of a trawl.

Dynaline or Contourline It enables you to make a reliable estimate of fishing reliable estimate of fishing prospects when traversing a particular ground and it belps you, when towing, to assess the quantity of fish likely to be caught and to regulate your towing time acfacilities only, and instru-

white line is a form of recording which portrays the seabed as a thin dark line on the chart with a blank portion, or white line, immediately following it. When no fish are present, the seahed contour is presented on a publication on how to the chart as a thin dark line prepare salmon for smok-

of constant thickness. ing.
I have now built a cold the close to the bottom will cause smoker but cannot find the this line to thicken. If fish are article. Can you refresh my present in significant quan-illies, echo traces will show The publication was clearly as shady patches Torry Advisory Note No. 5 -Recommendations for the

The white area which preparation of smoked follows the seabed contour salmon, by A. Bannerman provides a sharp contrast, and J. Horne. It is obtainable making it easier to discern (free) from the Torry any thickening of the contour Research Station, P.O. Box any thickening of the contour Research Station, P.O. Box line and to recognise any 31, 135 Abbey Road, Aberworthwhile shady patches deen, Scotland. which denote closely packed ish near the seabed.

Conventional scho Power out show these as merging with the seabed in such a way as to of line be indistinguishable from the bottom echo itself.

Basic purpose of grey line "CAN you send me any in-

recording is the same as that formation about of white line — to enable fish hydraulic transmission on or very near the bottom to systems which enable an When this method of anywhere in a boat?"

presentation is used, the thin dark trace of the seabed profile followed by a white power output of 50 hp at 1,000 pace is replaced by a shaded In rough weather, if white Precision Ltd., Western line presentation is used, a Road, Bracknell, Berkshire. It consists of a pump unit,

may be caused by the heave coupled to the main engine, of your boat and result in a which transmits high confused display of fish echo pressure hydraulic fluid to an When grey line presenta- into a streamlined aluminium tion is used under the same alloy housing coupled directly

conditions, any black marks to the propeller. above the shaded grey area Having given up pressure Dynaline facilities are returns at low pressure to the milar to white line facilities pump inlet for recir-

originally introduced in culation. The power developKelvin Hughes echo sounders ed by the main engine is,
and now incorporated in all therefore, transmitted to the
its fish finding sounders.

When a sounder without high pressure oil flow instead
white or Dyna line facilities is of through a gearbox and
used to detect fish on a place is the first. to detect fish on or close shafting.

to the bottom, echoes from A relief valve between the distinguish from each to the system in the event of a other.

Incorporation of Dynaline
facilities consists of adding a working clearances in the circuit to the amplifier to cut pump and motor units is it off alternations. t off altogether when returned to a reservoir, being

amplitude of echoes exceeds a replaced by means of an auxestain level.

When you make use of low pressure flow line.

The pump unit is of the naximum fish echo strength and below minimum bottom flow type and is controlled by

subsequently unaffected but system that enables any flow bottom echoes cut off the amplifier leaving unmarked be selected in either

spaces on the recorder paper.
These form a Dynaline, above which all echoes must be from fish.
Contour line facilities enable you to eliminate all surrounding it, so that leaks bottom echo tails from the chart. All that will be marked an effective heat exchanger on the chart are echoes from for cooling the oil.

fish and the seabed. The motor unit can be at-therefore the rest of the paper will be unmarked and rolls of it can be used a second lower end of a rudder stock. lower end of a rudder stock. Use of this propulsion unit Sounders incorporating means that the main engine white line facilities only, and can be installed wherever you more expensive instruments incorporating both white and grey line facilities, are obtainable from Kelvin Highes, New North Road, Hainault, Ilford, Essex, or from the nearest of the company's roles of the company's The variable volume pump

The variable volume pump ou.

Sounders incorporating of an infinitely variable gearbox. It is controlled by a single lever which enables you to select any propeller motor which, in turn, drives apeed and direction from full ahead to full astern without

The control valve has three single lever which enables to a hydraulic apeed and direction from full and the propeller shaft.

The control valve has three single lever which is acrubbed regularly with a mild solution of bicar-answer them if they are sent bonate of soda will not reduction of engine speed. positions — forward, neutral, with a stamped Another hydrostatic reverse — and is connected to velope for reply.

Volvo Penta in conjunction with Volvo Flygmotor, is obtainable in the UK from Bolinders Ltd., 50 Kings Cross Road, London WC1.

This consists of a hydraulic number of the Constant of the Con

John Burgess, en

QUESTIONS?

positions - forward, neutral, with a stamped addressed en-

tank can become polluted in two ways. If the tank is not fitted with a sizeable inspection cover so that the inside can be inspected regularly and cleaned if necessary, slime and algae may accumulate to such an extent e: that the water is not fit to drink — but this can occur with a tank made of any

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are in process of fitting out but were advised not to as the water might become polluted. "Does the water in a

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Fresh water in a GRP

pollution

become polluted by slime and

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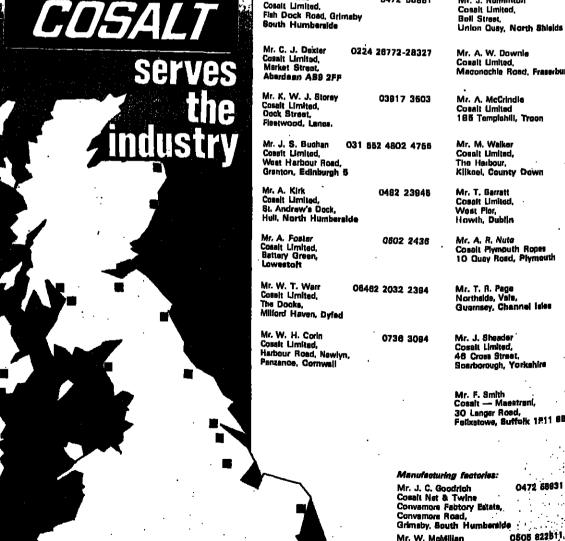
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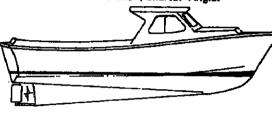


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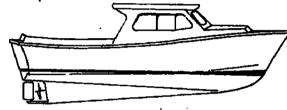
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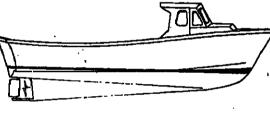
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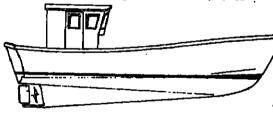
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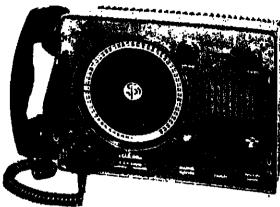
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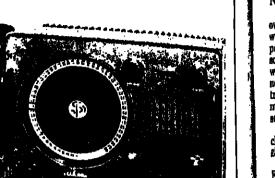
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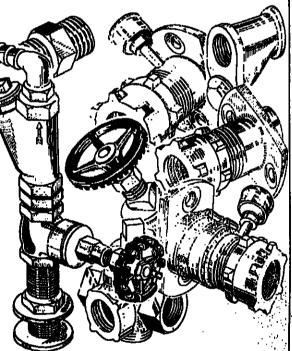
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Grimsby coming out of doldrums

THERE were signs last week at Grimsby that week at Grimsby that the early May doldrums were finally over as trade picked-up—especially in the Morth Sea section.

Landings fell back to just over 20,000 kits during the mort was again without a suppointing £23,626, from a appointing £23,626, f

nearly all the middle water trips came trawlers are facing, it was a much better week for the south Humberside port.

Quality cod has been langing hands well above per kit.

But is a done at the other near/middle water trips came the top trio. But is a next best on £17,772 from 752 kits after 15 days.

Ross Jaour 180.

Top North Seas trip came from the Belgian vessel Cleaner (0 306) and her fine trip of big cod sold through the United agency for Mich kits.

170, North Seas trip came from the Belgian vessel Cleaner (0 306) and her fine trip of big cod sold through the United agency for Mich kits.

Ross Jaour 180.

Top North Seas trip came from the Belgian vessel Cleaner (0 306) and her fine trip of big cod sold through the United agency for Mich kits.

changing hands well above the grant hands well above the per kit.

A blue ling trip by the French stern trawler Bisson produced the best grossing of 228,978 from a turnout of 1,195 kits after a Westerly the the Boston trip through the Boston

Group agency.
BUT's Ross Jaguar (Sk.
Dennis Speck) led the local
semings with 225,888 from
84 kits, including nearly 450 of codatuffs, after a 17-day Westerly trip.
The only other vessel to top

t20,000 was Boyd's Hull wet fisher Arctic Vandal. However, a big landing of

on the same market the John R. agency, was the



THE FIRST North Shields fishing

The organiser Stephen Cross, who is superintendent of the fishermen's Mission there, says he expects over 40 vessels to take part and at least 600 people from the fishing industry to be present. Mr. Cross says that in the event to the decorated boats competition.

No. Dixon.

The Mayor, Coun. J. P. Dixon.

Vessel. Then the Spanish vessel into ing a 'tight' net.

The Mayor, Coun. J. P. Dixon.

Vessel. Then the Spanish vessel into ing a 'tight' net.

The Mayor, Coun. J. P. Dixon.

Vessel Was warned and dovered over the skipper took his vessel into ing a 'tight' net.

THE FIRST North Shields fishing boat regatta since the turn of the cludes a "sail past" of decorated one girl from those representing skipper still refused to take each boat in the regatta will be the ship in himself. The tow dress competition and disco, has crowned 'Queen of the Fleet' by the continued for more than three been contributed by all sections of the industry.

Mayoress of North Tyneside, Mrs. hours until an RAF helicopter

from 768 kits, mostly of cod

Clampdown From page one

and even smoke flares - he

very firmly on flats.

A combined grossing of £22,119 by Laurids Skomager (Sk. Jorgen Bojen) and Anna Michelle (Sk. Pete Harris) from 768 kits mostly of cod no effect. The skipper was fined £15,100, last Friday. The day before Skipper Chenonceaux was fined Salvador Badioca of the Bilbao trawler Gorichio was fined £15,000 for illegal on Wednesday. fishing and £100 for disobeying an instruction to proceed to Milford Haven after the

Food, said that the Spanish vessel was arrested by the fisheries protection of payment within 24 because and imposed a suspended prison sentence of 60 days in default isheries protection vessel HMS Stubbington 409 miles south-west of St. Anne's Head. He said the ship was 28 miles inside the British sector of the EEC limits and did not have a licence to fish there. The Royal Naval boarding officer ordered the skipper to proceed to Milford but he refused.

owline on board the vessel and also an armed arrived and hovered over the vessel. Then the Spanish vessel was warned about hav-

Georges Jean Bourhis from Finiatere admitted fishing in Michael Howells, prosecuting for the Ministry of Agriculture, Fisheries and Food said that the continuous and imposed a second said that the continuous and British waters with a small

of payment within 24 hours.
Anthony Collin,
prosecuting for the MAFF,
said the charge was brought under an act designed to protect immature fish.
On Monday HMS Lin-

disfarne found the 154-ton trawler fishing within British limits, 78 miles south-west of

The trawl containing fish

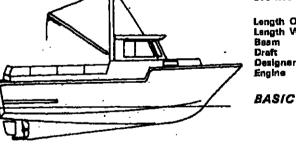
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Length W.L. 9.4m: (30'10")
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Draft 1.3m. (4'3")
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by Bruce Roberts Up to 100hp 4 tonnes approx.

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be obtained free of charge from: The Fisheries

Laboratory, Burnham-on-

Crouch, Essex. It also coven

It was only recently that i

supply comes from France.
Indeed the demand to

Mussels have been grow on posts in France for over

ed on the Brittany coast an

who grew mussels for food

One of the main centres

Details of the scallop and consistent with usually three-its fisheries in England and to six boats of 45-60 ft. (15-20 Wales are presented in a new metres) fishing for most of the Wales are presented in a new leaflet produced by the year.

MAFF Fisheries Laboratory

The size of the fleet varies according to abundance and according to abundance and

I found the information of market conditions. Oc-I found the information of market conditions. Occonsiderable interest. Did casionally some of the boats of the fleet, which at times port of Rye, to the east, from the years there has fished by trawling mainly a single dredges from the large sandy ground. Beam has single dredges from the large sandy ground. Beam has single dredges are Raird dredges or Raird dredges. The addition of the sand the sand the single dredges are Raird dredges.

The addition of the fleet, which at times port of Rye, to the east, from the dredges from the large sandy ground. Beam has single dredges are Raird dredges. The addition of the fleet, which at times port of Rye, to the east, from the dredges from the large sandy ground. Beam has sandy grounds from off Start Point of the fleet, which at times port of Rye, to the east, from the dredges from the large sandy ground. Beam has sandy grounds from off Start Point of the fleet, which at times port of Rye, to the east, from the dredges from the large sandy ground. Beam has sandy grounds from off Start Point of the fleet, which at times port of Rye, to the east, from the years there has sandy ground. Beam has sandy grounds from off Start Point of the fleet, which at times port of Rye, to the east, from the years there has sandy ground. Beam has sandy grounds from off Start Point of the fleet, which at times port of Rye, to the east, from the years there has sandy grounds from the fleet. creases its size by the daily tonnes per day have been in the east to the Scilly at one time. all the shell edges?

ilthough the growth rate of

creased to 4,580 tonnes Seahouses. valued at £1,890,000! Brixham Brixham has been the most

Growth is most rapid from Brixham include Start Bay, at Falmouth in Cornwall.

April to June and is virtually Lyme Bay, Torbay and off One productive area, four

Plymouth has developed as although the growth rate of the scallop varies from area to a scallop port during the area. Some scallops can attain the age of 14-15 years and specimens over 18 years old have been recorded.

In the 1880s there were regular fisheries for scallops found for smaller scallops and considerable landings are exploiting North Sea the scallops and considerable landings are scallops belong the Wolf Rock beyond Lands the Wolf Rock



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mainly Channel Islands a short time in some areas. registered — have irregularly

bring this fishery to a close and only small landings were

The autumn of 1975 saw he start of a boom for

One productive area, found five to 20 miles offshore.

in 1976, was located south of Regular landings of over the Wolf Rock beyond Lands 500 dozen scallops per boat

off the Farno Islands — more or less unfished aince Ministry with a long history of sporadic landings, Newhaven was developing again following the discovery of stocks in the mid-50s. However, the severe winter of 1963 helped The Northumberland beds

fishing activity for scallops it is possible that extensive of these dredges but these stocks exist that are, as yet, 80 ft. or more use up to four unfished. Likely areas are off side. the Welsh coasts and off north-east England. Brixham, escallops have ben

Over the years there has fished by trawling mainly a been a change from the large saudy ground. Beam hash Manx dredge or Baird dredge to lighter dredges fished in onnes per day have been in the east to the Scilly at one time.

Islands in the west. Occurred beds have been to lighter dredges fished in chains to the beam trail from casionally landings are made worked, from Dungeness to fleets of two to six helps to catch more scaling brixham include Start Bay, at Falmouth in Cornwall.

The description of Rectar to the Scilly at one time.

Several beds have been to lighter dredges fished in chains to the beam trails. Several beds have been to lighter dredges fished in chains to the beam trails. The several beds have been to lighter dredges fished in chains to the beam trails. Several beds have been to lighter dredges fished in chains to the beam trails. The several beds have been to lighter dredges fished in chains to the beam trails. The several beds have been to lighter dredges fished in chains to the beam trails. The several beds have been to lighter dredges fished in chains to the beam trails. The several beds have been to lighter dredges fished in chains to the beam trails. The several beds have been to lighter dredges fished in chains to the beam trails. The several beds have been to lighter dredges fished in chains to the beam trails. The several beds have been to lighter dredges fished in chains to the beam trails. The several beds have been to lighter dredges fished in chains to the beam trails. The several beds have been to lighter dredges fished in chains to the beam trails and the several beds have been to lighter dredges fished in chains to the beam trails and the several beds have been to lighter dredges fished in chains to the beam trails and the several beds have been to lighter dredges fished in chains to the beam trails and the several beds have been to lighter dredges fished in chains to the beam trails and the several beds have been to lighter dredges fished in chains and the several beds have been to lighter dredges fished in chains and the several beds have been to lighter dredges fished in chains and the several beds have been to lighter dredges fished

In the eastern English not catch so many each Channel the small per unit area fished a 'Newhaven' dredges are used. dredges. These are spring-toothed dredges based on a simple solid steel triangular frame. They have nine or ten teeth welded to a bar 0.8m wide

which is attached to a 'trip' the biology marketing and mechanism of coiled springs. When the teeth hit a rock the in England and Wales. tooth bar tilts back, thus avoiding snagging or breaking the teeth. This is a necessary measure in the eastern Channel where much of the found out that France is a ground is stoney and even major producer of musek then considerable damage and in recent years should still occurs necessitating fre-

These dredges are fished on a steel boom with rubber bob- mussels in France exceeds the bin wheels at each end. To supply and large imports an each boom are linked two-six made from Holland, Spale dredges with two booms per and Germany.

The chain bellies are often of double rings and the backs of twine netting.

700 years, It is said that this system was devised by so Irishman who was shipwred.

Efficient

In the west, off Devon and cultivation is on the north Cornwall, Newhaven Brittany coast. Wooden (cak) favour for fishing rocky areas.

But where the manual areas.

Griven into the shore at level. But where the ground is softer tide level. Seed mussels and the scallops are buried in their recesses the 'French' dredges or 'dragues a volet' are found to be more efficient.

The 'dragues a volet' is are in the shorts.

Large areas of the shorts. The 'drague a volet' is an improvement on the 'drague posts; French fishermen at Dieppoise', still used in the Baia de le Saint

Dieppoise, still used in the Baie de la Seine.

The addition of the diving plate is said to improve its efficiency considerably. There are about 20 teeth set about nine cm apart and usually between 6,000-10,000 posts between 6,000-10,000 onger (ton-12 cm) than those serviced by three or four men on the 'Newhaven' dredge, to

... Recalling some of the stories which appeared in our columns this week 50

MAY 26, 1928

FISH_trade warns that a trading will seriously affect everyone in the industry and will not go dustry and will not go through parliament as easily as is thought.

BOSTON trawling firm places orders for five diesel-propelled trawlers.

LANDINGS by foreign ment.

target

AN 480.000 purpose-built unit is to be installed in Scarborough Hospital due ficially opened on Monday last Fishermen's Wives week with the first fish of the Association.

mest the balance from expected to grow. various funds, but representatives of the association insisted that they would raise

Association member. Rechel Jenkinson, said that unit will begin in September and it will be attached to the

to hit herring

season being landed by the local Association.

The association started the campaign last year. It first set a target of £40,000, which doubled after plans had been prepared for the building.

The management team of the building were on sale in the shops the next day. the hospital was prepared to Landings were light, but the fleet was

> system will be operated in the Manx fishery this summer, with a total of 115 licences being granted to Irish, English, Scottish and Manx boats.

For the second year a licensing

Rachel Jenkinson, said that Far more local boats have turned to the fund now stands at the herring from the traditional kick-off 29,000. The building of the scallops this year following last year's record price of nearly £70 per unit.

accident ward of the hospital.

one of the oldest fishermen operating in the Irish Sea, John Warnick. The buyers were presented with a bottle of champagne and Mr. Warnick received the part of the coast can money is needed for the feels this part of the coast can money is needed for the feels the fe

Conservation quotas are also being applied again this year. Around 2,000 tons is the limit for the low season from now until August 20. The Manx high season — which goes from then to the end of September — will also have a fixed quota, but this has not yet been announced.

The new sales company Manx Fish Auctioneers Ltd. sold its herring from the Irish vessel Fisher Lad skippered by one of the oldest fishermen operating in the Irish Sea. John Warnick. The

Big Manx fleet PROTESTS OVER

a new hat to mark the occasion. More be adequately covered by the stationing of fast afloat boats fast atlantic-type lifeboat at key stations and to ensure now at Staithes, and Whitby

Members want the RNLI Fishermen say the move to reconsider its plan to close has come at a bad time as the station and replace it with they are now using more fixed a small inshore craft now in nets than lines.

FISHERMEN along the North Yorkshire coast appear to have lost their battle to save the Runswick Bay lifeboat station despite moves at a meeting of the

North-Eastern Sea Fisheries Committee.

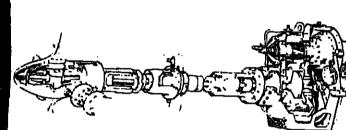
withdrawn.

An RNLI spokesman in London has reiterated that it RNLI's chairman.Part of the and Redcar deepsea lifeboats. self-righting capability.

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A RANGE TO REMEMBER

Revised fish **PUBLICATIONS**

Dictionary of Fish and Fish The result is an up-to-date Products, out of print for working tool that no fish trader some time, has been or processor can afford not to published in a second edi-

untial source of information shout fish products around the world. It gives names in 16 Inguages and briefly outlines

The Dictionary is published for the OECD by Fishing News A panel of experts engaged Books, 1 Long Garden Walk, is fish research and develop- Farnham, Surrey, England ment work edvised the OECD Price £16 net.

1.117 entries spread through ita 430 pages.

FINANCIAL consultants preading its wings into Aberdeen and expanding it Peterhead with two

Operating from Aberdeen, he Stuart Carmichael will give Waid Morgan its (34). Based at Peterhead, his



to the fishing industry, Wald Morgan Association Ltd. of Dundee, is spreading its

have on the shelves of his office

gold-embossed binding and has

Keith Scott (32).

Operating from Abordeon, he will give Waid Morgan its

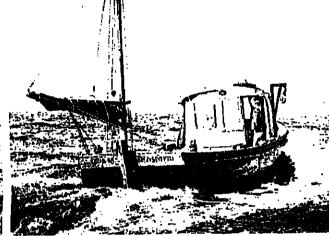
activities will be identical to Mr. Scott's in the life and

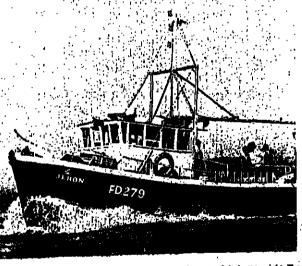
Mr. Scott will also be responsible for Waid Morgan's fishing activities in the life and Pension division the life and Pension division for Peterhead, Fraserburgh and Shetlands.

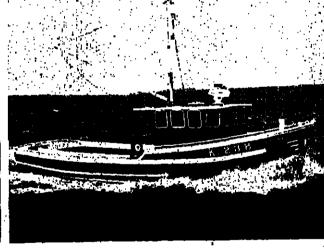
Peter Ross will become

Mr. Ross holds a Diploma









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tuguese Government versel. The fishermen were

MESSRS Cochrane & hake by Swedish fishing for Sons of Selby launch a 138ft. steel screw trawler to go to Hull. She is named Deepdale Wyke.

SEINE net fishing for hake by Swedish fishing for hake by Swedish fishing to hake by Swedish fishing for hake by S already arrived at the port with seine equip

LANDINGS by foreign vessels at Fleetwood in April this year totalled 835 tons — 515 tons more than in the same period last year.

TWO Queenborough men drown when their craft capsizes while they gather cockles on the Isle of Grain, in the Thames.

CREW of French fishing Health Insuface with Insuf

Weld Morgan Associates have appointed two new consitante, Abova: Keith Scott and (below) Stuart Carmichael.

MANAGERIAL changes at Aberdeen have been announced by British United
Trawlers which recently
transferred three trawlers from Fleetwood to Aberdeen.

trawler manager from July 1. He succeeds John McCombie who was appointed trawler manager of J. Marr (Aberdeen) Ltd.

in Management Studies and a Degree in History. He spent some time with Halburton
Manufacturing & Services,
Aberdeen, before he joined
the BUT office at Grimsby.
Stanley Smith, crewing

manager at Aberdeen, becomes operations manager and Alan Cunningham becomes oil related projects manager. Frank Deans, assistant superintendent

enginer, becomes the super-intendent engineer.

Twenty trawlers and eight oil rig standby ships, with a complete back-up service, are operated by BLTL, which also runs 20 trawlers from the ports.

HAWKER SIDDELEY

R.A. LISTER MARINE

GOODRIDGE AVENUE BRISTOL ROADS GLO JCESTER GLO JCESTER

GOODRIDGE AVENUE BRISTOL ROADS GLO JCESTER GLO JCESTER GLO JCESTER FOWER GLO JCESTER FOWER GLO JCESTER FOWER GLO JCESTER SIDDER STORY SUPPLIES AND JCESTER SIDE STORY SUPPLIES AND JCESTER SUPPLI

same name — Spes Maris.

model built by Andrew Parker from Ar- good replice of the original."

naval architects of Arbroath.

Mr. Parker built the model working from the original plans of Spes Maris down for Mr. Parker. He retired two which were provided by Napler Co., the years ago as production manager with Robb Caledon shipbuilders of Dundes.

Buchanan, has a rival with a boat every Skipper Buchanan but he has given me a ling on drawings for ships weighing bit as good as his. She even has the lot of help with the model. He has sent thousands of tons he has included every several photographs and with these and detail right down to the bulkheads. He The rival boat is a half-inch scale the original plans I think the model is a built up the boat starting with a skeleton and using mini planks which he bent to shape using a kettle instead of a

Catch '78 exhibition at Abardsen in



Freezer changes

THE LATEST list of Benedict is now seventh, beplacings in the British ing toppled from second place Freezer Trawler Competition by BUT's Kurd — 14 places issued last week-end shows up.

Some big changes.

Big rises by two other BUT

some big changes.

Only one vessel figuring in the top five in the earlier from 15th to third and Ross monthly list remains in Illustrious from 24th to the leading flight and this is fourth, while Marr's Swanella BUT's Dane, which has mov- has advanced from ninth to

ed to the top from fifth.

Meanwhile Boyd Line's The top 20 placings are Arctic Buccaneer, up until shown below (positions now the leader, is down to previously held are in sixth, while Hamling's St. brackets).

1(5) Dane (BUT)		Position	. Vessel	Tonnes	Poi
2(14) Kurd (BUT) 349 4, 3(15) Coriolanus (BUT) 312 4, 4(24) Ross Illustrious (BUT) 281 4, 5(9) Swanella (Marr) 292 4, 6(1) Arctic Buccaneer (Boyd) 1448 3, 7(2) St. Benedict (Hamling) 1431 3, 8(11) Kirkella (Marr) 328 3, 9(29) Arctic Freebooter (Boyd) 304 3, 10(17) Kelt (BUT) 267 3, 11(16) Pict (BUT) 263 3, 12(3) Arctic Galliard (Boyd) 1223 3, 13(23) Boston Lincoln (Boston) 217 3, 14(21) Ross Vanguard (BUT) 231 3, 15(31) Invincible (BUT) 208 2, 16(10) St. Jason (Hamling) 1066 2, 17(7) Southella (Marr) 1066 2, 18(30) Roman (BUT) 304 2, 19(8) Cordella (Marr) 1013 2		1(5)	Dane (BUT)	424	5.
3(15) Coriolanus (BUT) 312 4, 4(24) Ross Illustrious (BUT) 281 4, 5(9) Swanella (Marr) 292 4, 6(1) Arctic Buccaneer (Boyd) 1448 3, 7(2) St. Benedict (Hamling) 1431 3, 8(11) Kirkelia (Marr) 328 3, 9(29) Arctic Freebooter (Boyd) 304 3, 10(17) Kelt (BUT) 267 3 11(16) Pict (BUT) 263 3, 12(3) Arctic Galliard (Boyd) 1223 3, 13(23) Boston Lincoln (Boston) 217 3, 14(21) Ross Vanguard (BUT) 231 3, 15(31) Invincible (BUT) 208 2, 16(10) St. Jason (Hamling) 1066 2, 17(7) Southella (Marr) 1066 2, 18(30) Roman (BUT) 304 2, 19(8) Cordella (Marr) 1013 2		2(14)	Kurd (BUT)	349	
6(9) Swanetta (Marr)			Coriolanus (BUT)	312	
6(9) Swanetta (Marr)			Ross Illustrious (BUT)	281	
6(1) Arctic Buccaneer (Boyd) 1448 3, 7(2) St. Benedict (Hamling) 1431 3, 8(11) Kirkella (Matr) 328 3, 9(29) Arctic Freebooter (Boyd) 304 3, 10(17) Kelt (BUT) 267 3, 11(16) Pict (BUT) 263 3, 12(3) Arctic Galliard (Boyd) 1223 3, 13(23) Boston Lincoln (Boston) 217 3, 14(21) Ross Vanguard (BUT) 231 3, 15(31) Invincible (BUT) 208 2, 16(10) St. Jason (Hamling) 1066 2, 17(7) Southella (Marr) 1066 2, 18(30) Roman (BUT) 304 2, 19(8) Cordella (Marr) 1013 2	•		Swanella (Marr)	292	
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8(11) Kirkella (Marr)		7) 25	St. Benedict (Hamling)	1431	3'
9(29) Arctic Freebooter (Boyd)		8/171	Kirkella (Marr)	328	3
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20(20) Arab (BUT)			Coraetta (Marr)	1013	2,
		20(20)	Arab (BUT)	189	2,
				ر بسند	

Treeve DS25 (25' 6")

6. Very low fuel costs **TIMBER FEATURES**

conditions

NEW SHIELDS QUAY 'DEPENDS ON OTHER PORTS'

THE PROPOSED Minister that the recent all- 142,000 sq.ft. of factory space £10m. new fish quay party report on the fishing in- on the fish quay. for North Shields will dustry had said such a quay be considered "in relation to the future of other ports and the of the restance of the restanc Minister for Fisheries, John Silkin, has said

in the Commons. Mr. Silkin was replying to a WHITE Fish Authority and 15 years, 124 per cent; over 15

UK's future fishing opMeanwhile contracts have fish merchants at North portunities,' the gone out for the sale of Shields.

Tynemouth MP, Neville
Trotter, who wanted to know
what action the Minister was
going to take to ensure the
building of a new quay.

Mr. Trotter reminded the

WHITE Fish Authority and
Totter HS
Herring Industry Board loan
interest rates are now as
follows: Fishing vessels under
80ft. and new engines: up to
five years, 12 per cent; five
to ten years, 12 per cent; ten
to 15 years, 13 per cent; ten
to 15 years, 13 per cent; ten
to 20 years, 13 per cent.

WHY ARE TREEVE MARINE'S NEW COMPLETE RANGE OF SHALLOW DRAFT INSHORE FISHING

Boat

WO MANX fishermen had a lucky escape at the weekend when their Ramsey - registered (ubing boat sank without trace after a collision is fog 24 miles off the island. Skipper John Williamsan

from Castletown.

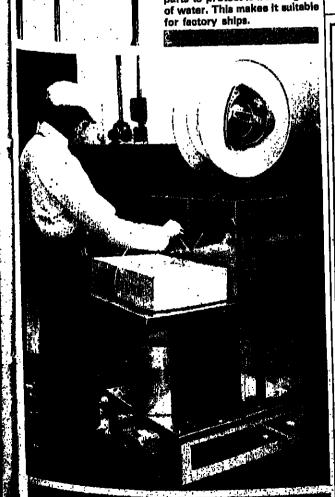
A NEW polypropylene strapping machine has been isunched by Godien Strapping of Middlesex this month. crewman, Jackie Eves. managed to scramble off the It is the OL-35 Marine which Workboat has been designed for use boat Robert Dee without be ing hurt.
The accident happened a board factory trawlers.

The new machine is mainly wiper for use in packaging operations the early hours of Prider which, while not justifying high a STRAIGHT-line window wiput, fully-automatic equipmorning when the men set fishing off Maughold Had Visibility was poor and the was collision with the 47-ba ment, need a more wiper — the Wynn '49' — has sophisticated system than been developed by fishing boat Jacob Johanne minustry operated tools.

The OL-35 Marine seals Robert Dec sank show atomatically and the operator mmediately after the impact be only to feed the strap but the men and their do awnd the package. It has were hauled aboard the other boat which is owned by mathines of its type and Henry Goldsmith of Port S

to marine specification and is available for 12 volt and 24 volt





'Flat' power block

dalmed to be about half the cost of its competitors, has been designed by a Northumberland marine

May 26, 1978

May 26, 199

Called the Decar power block, its inventor, Dave Moffett of Seston Delavai, neer Blyth, says that at a cost of £800 his machine will do the same as other blocks costing £1,000 or

His equipment is basically a powered roller which is fitted to the side of a vessel and, instead of being 'V'
shaped, is flat with net
guides fitted to each side.
"All the fishermen has to do is feed the net in and then pull down on it - the

block does the rest," says

Nesbitt's *Rising Dawn* at One of the big advantages of his machine, claims

The wiper has a lateral

sweeping movement and a

white marine finish. It is

suitable for sliding, hinged or

fixed windscreens and wide

The Wynn '49' is engineered

supply. Standard stroke lengths

parts to protect it from Ingress

A hydraulic motor is

fitted inside the 15in. long

steel roller, which has a

rubber-bonded surface, and

Capable of a pull of

1.000lb. the block has a

flow control valve giving a

speed of anything between 20rpm and 800rpm.

designed the machine after

a fishermen friend asked

The result is now install-

ed on three local cobles —

one at Craster, one at Bulmer and the other on lan

him if he could make

cheap, efficient block.

Mr. Moffatt says he

is 9§in. in dia.

'V' block it does not crush large fish as they pass over

So successful has his invention been that he now has orders for seven more small factory in Blyth where he hopes to produce them it

The Decar block can be fitted with an attachment for pot hauling, and Mr. Moffatt is currently working on a design for incorporating his block into a hydraulic arm for use on

Sussex, is now the sole UK agency for North Star Ice Equipment of Seattle.

This will enable PW insulations to offer a complete flake ice package of making equipment, storage bunker and refrigeration plant to UK companies and overseas com-panies importing from the UK. The North Star ice maker is a vertically

mounted, stationary, double-walled rigid cylinder. Water is pumped into the top of a hollow rotating shaft and distributed over a polished inner cylindrical surface giving a

Deflected

A low temperature refrigerant circulated n the annulus between cylinder walls freezes the water. Excess water is deflected eack into the receiving pan at the bottom of the freezing surface ready for recirculation.

coming water at 60°F. Each ton of dry sub-cooled ice provides the equivalent of more than 17,000 square feet of cooling surface to chill and cool perishable products such as large quantities

TRAWL WINCHES

Flake ice

package

an arm with a series of loe removal tools to

shear les from the fraezing surface without

actually touching the wall. Water-free los falls from the bottom of the machine.

ice temperature os adjustable to allow temperatures of 0° (-18°C) or lower.

The ice maker will produce more ice per BHP applied than traditional units — 1.3

tons of refrigeration per ton of ice from in-

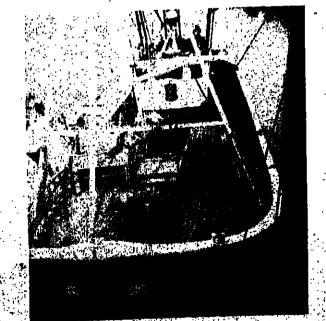
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Deck Machinery AND NET DRUMS It is almost essential for pelagic fishing that a net drum be Installed. Robertson's supply a range of drums with various drive systems for all classes of fishing vessels. Illustrated is a 9 cubic metre 30 ton pull net drum

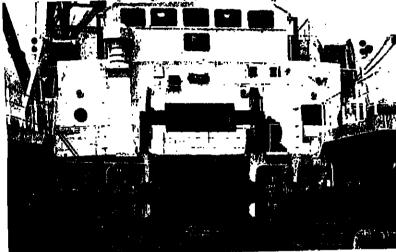
installed in association with Robertson trawl winches on the freezer trawlers 'Goth' and 'Roman' Our range extends from 3 cubic metres to 16 cubic metres with pulls up to 52

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reels for my vessel.

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GRP FEATURES 1. Lumber holes — no extra charge

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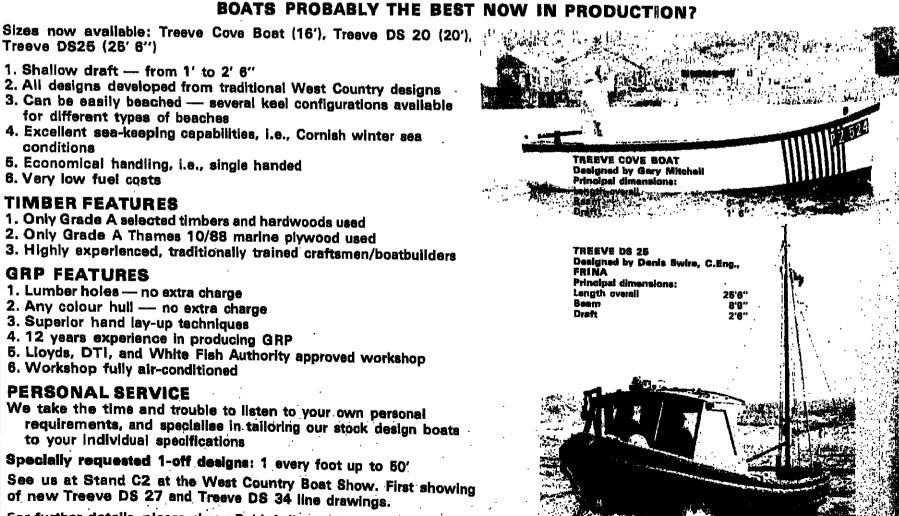
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Catches and Prices

TOP LANDINGS LAST WEEK

Seiners

Sei

£11,770: Laurids Skomager (Sk. £22,600: Pindarus, BUT (Sk. J. Jorgen Bojen), 404k, and £10,349: Glasgow), 1,540 k, S, 15 days.

Anna Michelle (Sk. P. Harris), £20,603: Grampian Monarch, North 364k, both John R., NS, 15 days. £11.179: Leanda, Danbrit (Sk. B. days,

Nejrup), 330k, and £10,209: Caenby, Sleight (Sk. J. Lee), 323k, both NS, 14 days. £9,370: Skanderborg, John R. (Sk.

A. Mussell), 44k, and £7,153; Kathleen, Hamling (Sk. T. Scorer), 267k, both NS, 16 days.

£11,553; Grenaa Pearl (Sk. M. Potterton), 362k, and £8,329: days.

Grenaa Star (Sk. K. Yates), 274k, both Danbrit, NS, 14 days.

(Sk. J. Ketteringham), 509k, NS, 12 days.

£16,840: Boston Phantom, Boston (Sk. A. Meech), 914k W 17 days.

£60,067: Somerset Maugham, Newington (Sk. B. Taylor), 1,837k,

£24,213: St. Giles, Hamling (Sk. J. Humphrey), 793k, BI, 23 days.

£25,884: Ross Jaguar, BUT (Sk. D. Speck), 944k, W, 17 days. £17,671: Ross Cougar, BUT (Sk. J. Major), 752k, W, 15 days. £16,941; St. Thomas, East Coast (Sk. B. (Sk. J. Ketteringham), 509k, NS, 12

(Sk. A. Meech), 914k, W, 17 days. £16,649: Ross Juno, BUT (Sk. B. Cunningham), 605k, W, 15 days. £15,919: Ross Cheetah, BUT (Sk. E. Hodson), 585k, W, 14 days.

£14,252: Boston Sea Knight, Boston (Sk. A. Lincoln), 459k, NS, 11 days. £13,920: St. Davids, East Coast

£10,400: Lemberg, Lindsey (Sk. H. Pexman), 301k, NS, 13 days. £9,540: Lepanto, Lindsey (Sk. S. Davidson), 292k, NS, 14 days. £6,801: Lofoten, Lindsey (Sk. Hatton), 181k, NS, 9 days.

NORTH SHIELDS

£16,217: Ben Edra, Irvin (Sk. R. Palmer), 43,549 kg, NS, 11 days. £10,022: Ben Chourn, Irvin (Sk. T. S. Jamieson), 24,619 kg, NS, 11

E17,945: Arctic Rebel, Liston (Sk. J. E4.30/£4.50; catfish, £2.40/£2.50; sole. Banyard), 1,025 cwt., NS, 13 days. (At Peterhead). (At Peterhead). (At Peterhead). (Sk. B. McPherson), 3,777 cwt., W, 9 days. (Sk. B. McPherson), 3,777 cwt., W, 9 days.

£4.868: Rosevear, Norrard (Sk. J. Manson), 135k, 13 days. £3,865: Bryher, Norrard (Sk. A. James), 101k, 12 days. £3,775: Picton Sealion, Norrard (Sk. T. Salter), 80k, 12 days. £3,040: Westerdale, Linke (Sk. F. Reynolds), 72k, 12 days.

Westerly: Boston Phantom, Expected during the week from Erimo, Nanco, Ross Jaguar, Ross White Sea: C. S. Forester and St. Kashmir, Ross Kipling, Ross Gerontius.

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and Scottish Salmon Specialists BIRMINGHAM NEW WHOLESALE FISH MARKET. 14, 27, 28, 26 FIGH AND POULTRY MARKET, PERSHORS STREET, BIRMINGHAM BE SUN Talphone (02)) 622 1027, (421) 622 1028, (621) 622 1028, (821) 822 1028

Prices: shelf cod, £3.50/£4; codling, £2.50/£3.60; shelf haddock, £4/£4.40; medium, £3.40/£4; 24:40; medium, 23.40/24; small, 22/22.20; large plaice, 23.80/24.30; medium, 23.70/24.60; best small, 23.50/24.30; large skinned dogfish, 27; medium, 24.50; amall, 21.60/22; per stone.

1,996 kits from one distant water

FRIDAY, MAY 19

DUBLIN

1,200 boxes from Howth and Skerries. Prices: prawn, 18p/75p; white sole, 3p/4p; slips, 45p/50p; brill, 16p/25p; sole, £1.80; large plaice, £0. 15p/95p; dabs, 3p/4p; slips, £1.60; medium, £1.80; large plaice, £1.60; medium, £1.80; large plaice, £1.80; large plaice, £2. 10, 2p; cod, £18.20; medium, £17.80; for medium, £18; large cod, £2.80; haddock, £1.70; medium, £1.80; salle, £1.80; medium, £2.80; monkfish, indiced, £1.80; medium, £2.80; urbot, £1.80; medium, £2.80; urbot, £1.80; medium, £2.80; urbot, £1.80; medium, £2.80; urbot, £1.80; medium, £1.80; salle, £1.80; salle, £1.80; medium, £1.80; salle, £1.80; sall

TUESDAY, MAY 23

FLEETWOOD Prices: cod, £41/248; plaice, £24/253; medium haddock, £35/£50; ling, £25/£29; coley, £18/26; dogfish, £11; monkfish, £36/241; roker, £17/£39; whiting, £30/£37; guarnard, £8/£9; turbo £90/£160; sole £160/£180; brill £50/£150, per 10at. kit.

1,996 kits from one distant water trawler, Pice ranges per 10 stone kit. heads on: shelf cod. 234.35/237.60, (average 235.80); shelf codling, 221.95/236.15, North Sea. Prices: large codling, (231.65); shelf haddock large, 231.50/240; medium, 231/239.50; 235.50/247.25, (240.46); small, 231/237; saithe, 214/221; 222.50/245.25, (231.68); coley, large haddock, 236.50/244; 217.50/220.25, (218.14); bergylts, medium, 234.50/238.50; small 215.25/222.21, (219.06); rocklish, 219/232.40; whiting, 250.50; ling, 223. Nodistant water 219.10/224.40; lemon sols, plaice, hallout or bulk codestuffs, 240/246; plaice, 220/230; per cod.; hallout, 27/216.30; per stone, trout, 21.20/21.30; grilse; and the stone ray, 25.40; (b)

LOWESTOF (**)

1,665 kits from six boats. Prices;
cod, £32/£42; large rokor
£28/£32; small, £28/£36; large
plaice, £40/£41; medium,
£39/£44; small, £28/£36; codling,
c22/£40; large haddock, £42/£60;
small, £17/£32; large turbot,
£140/£170; small, £100/£110;
lemon sole, £48/£69; Dover sole,
£140/£170; small, £100/£10;
lemon sole, £48/£69; Lover sole,
£160; whiting, £10/£16; catfish,
£22/£24; brill, £45/£52; dabs,
£14.50/£29; monkfish, £60;
dogfish, £8/£20; per 10 st. kit.

FRASERBURGH
630 boxes from 16 boats Price

H14.507£25. Interview of the first state of the fir

medium haddock, £22; per 8 st. kit. PETERHEAD 1,336 boxes from 14 boats. Prices: cod/codling, £2.90/£4.90; whiting, £3.80; small, £2.60; large plaice, £4; small, £2.40; turbot, £16; large whiting, £3.80; small, £2.60; large lemon sole, £8.40; medium, £1.80; large Dover state that the control of the con GRANTON £2.10/£2.30; monk fish, tongues, 28; brill, £9; ray wire, £17,945; Arctic Rebel, Liston (Sk. J. £4.30/£4.50; catfish, £2.40/£2.60; £8; monk fish, £8; large debt, £1.

Prices: cod and sprag. £3.40/£4.60; codling, £2.20/£3.90; haddock, £3.60; large hake. Prices: herring approximately £6/£9.80; small, £2.50/£4.60; 118 units, landed at £36/£38 pt

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PART MARKETS

| St. A. Lincoln), 459k, NS, 11 days. E3,040: Westerdale, Linke (Sk. F. Humphrey), 793k, BI, 23 days. | E3,040: Westerdale, Linke (Sk. F. Humphrey), 793k, BI, 23 days. | E13,920: St. Davids, East Coast (Sk. K. Mayall), 421k, NS, 12 days. | E12,875: Oulton Queen, Talisman (Sk. A. Hutchinson), 389k, NS, 12 days. | E26,716: Tourmalet (French), days. | E11,790: Barnby Queen, Talisman (Sk. C. Craig), 368k, NS, 11 days. | E11,790: Barnby Queen, Talisman (Sk. W. Bridge), 875k, 16 days. | E11,524: Ripley Queen, Talisman (Sk. J. Deacon), 358k, NS, 11 days. | E11,524: Ripley Queen, Talisman (Sk. J. Deacon), 358k, NS, 11 days. | E11,524: Ripley Queen, Talisman (Sk. J. Deacon), 358k, NS, 11 days. | E11,524: Ripley Queen, Talisman (Sk. J. Deacon), 358k, NS, 11 days. | E11,524: Ripley Queen, Talisman (Sk. J. Deacon), 358k, NS, 11 days. | E11,524: Ripley Queen, Talisman (Sk. J. Deacon), 358k, NS, 11 days. | E11,524: Ripley Queen, Talisman (Sk. J. Deacon), 358k, NS, 11 days. | E11,524: Ripley Queen, Talisman (Sk. J. Deacon), 358k, NS, 11 days. | E11,524: Ripley Queen, Talisman (Sk. J. Deacon), 358k, NS, 11 days. | E11,524: Ripley Queen, Talisman (Sk. J. Deacon), 358k, NS, 11 days. | E11,524: Ripley Queen, Talisman (Sk. J. Deacon), 358k, NS, 11 days. | E11,525: cals, E12,00; E3,00; e11,524: Ripley Queen, Talisman (Sk. J. Deacon), 358k, NS, 11 days. | E11,525: cals, E12,00; E3,00; e11,524: Ripley Queen, Talisman (Sk. J. Deacon), 358k, NS, 11 days. | E11,524: Ripley Queen, Talisman (Sk. J. Deacon), 358k, NS, 11 days. | E11,525: cals, E12,00; e11,525: cals, E12,0 witches, £3.80/£4.50; small, £2.25/£3; headless cod, £6.60/£6.70; fillets, sholf cod, £9/£9.70; bulk, £8/£8.70; broam, £10; coalfish, £4/£4;50; haddock fillets, £9.20/£11.50; gibbers, £5.60/£5.70; jumbos, £5.80/£5.90; selected whiting, £2.80/£3.80; small, £2/£2.60; small English dogfish, £4/£6; large, £7/£7.80; mackerel, £2.40/£3.80; fresh herrings, £5/£5.40; London cured \$\$\frac{12.10/£2.20; per gattor.}{\$PROZEN FISH PACIFIC salmon, £1.25; £3.30; snappers, 43p; hun dogfish, £4/£6; large, £7/£7.80; mackerel, £2.40/£3.80; fresh herrings, £5/£5.40; London cured \$\$\frac{12.10/£2.20; per gattor.}{\$PROZEN FISH PACIFIC salmon, £1.25 (£3.30; snappers, 43p; hun dogfish, £4/£6; large, £7/£7.80; mackerel, £2.40/£3.80; fresh herrings, £5/£5.40; London cured \$\$\frac{12.10/£2.20; per gattor.}{\$PROZEN FISH PACIFIC salmon, £1.25 (£3.30; snappers, 43p; hun dogfish, £4/£6; large, £7/£7.80; mackerel, £2.40/£3.80; fresh herrings, £5/£5.40; London cured \$\$\frac{12.5}{12.5}\$; \$\frac{2.5}{12.5}\$; \$\frac{2.5}{12.5

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and deck. Gardner 5LW, Seaacribe redu, VHF Atlan 240 meter boat's preparty. Decca Mk21, Koden meter, lour man liferaft on hire. New fishrom, hydraulie steering, Hydenne possy block, new miszen mast. Vessel stellent condition. Owner requires mail Scottlah cruiser, stern vessel 39/44t. overall, Gardner or Kelvin. J. N. Treberry, Penzance, Cornwall. Telephone: Penzance 3944 7-8pm. GIRL Betty, 50ft. x 15ft. 7in. x 6ft. 2in., Kelvin R6 engine 112hp, new winch, warps etc. Kelvin Hughes 17 radar, Antritsu 32 mile radar, Simrad fish finder, Midland VHF., Woodsons radio transmitter, fishing gear includes two new bottom trawls, one mid water trawl, salmon nets, tangle nets, inflatable liferaft all boat's property. Owner getting larger trawler. Apply Fallon, Achill Sound, Co. Mayo, Iroland.

1975 carvel fishing boat, 25ft. x

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Built of wood 1957 by Herd & McKenzie, Buckie

Khal aquipmen: Decca Mk12 Navigetor, Kelvin Hughes rader with DRM Kelvin Hughe fordard VHF. Koden multi-purpose SRM. Camity of gear to be sold with yessel.

Closing date for offers 17th June to FMA Ltd, 19 Commercia Read, Buckle, telephone Buckle 32763.

FOR SALE BY PRIVATE BARGAIN

Built of wood in 1967 by MacMillans, Fairlie. Langth overall 60ft., breadth 20ft., registered tonnage 37.1., engine 240hp Caterpillar 0343, Sutherland trawl winch, engine completely overhauled March 1977 and boat re-wired.

^{Equi}pment belonging to boat: Sallor radio, fishlupe, Kalvin Hughes

On hire: Decce Navigator Mk21, Kelvin Hughes VHF and rader. The boat is digged for trawling and a quantity of gear will be sold

May be inspected at Isleomsay, Skye. Enquiries to Murdo MacLeod, Isleomsay 270 or 288.

MV VIKING WARRIOR PD 188

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owned: Kalvin Hughes rader, Redifon GR 674 VHF. Salor RT and watchkeeping receiver. Equipment hired: Kelvin Hughes MS 44 coho sounder with bottom lock. Decca Navigator Mk 12 and Decca Plotter. Sound reason for sale. fries to: John Brown & Son, 16 Harbour St., Peterhea elaphone Peterhead 2251 or Mr. James Bruce, 14 Springb etarhead, Telephone Peterhead 4140.

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1874 of Fibre Glass (Hallmatic Hull) construction, Registered Length Overell length 35. Tonnage 6. Gender 6 cylinder LW 84HP 211 reductions described equipment Koden Sounder and Selfor 83B. Hired less Travil Minch, step-up gear box, variable speed hydrautic pump, and so poi hauter. Quantity of fishing gafr to be sold with vessel.

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36ft. 6ins. steel Stern Trawler, forward wheelhouse, built Hull 1976, twin Ford diesels 110hp each, aft gantry, 120 iathom werps, one ton winch, Calor cooker, sink, ship's property Furuno radar, 9500 echograph, Cosalt Viking VHF, hydraulic steering, three trawls, wired for Decca MK21. Telephone Sulby 284 412 M.

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8M Clinker, mahogany/oak fishing vessel, lying Cowes, registered, equipped for dystering and line traviling. Petter diesel, winch, Seascribe, twin steering positions, full inventory, equipment for spares £2,200. Mackintosh UGI 308-2136 day, UGI 108-4536 night or Wallace Clark Ltd. Cowes 5712. JADE STAR GYPSY 100ft. x 22ft. x 10ft. Sin. Q.R.T. 179 tons. Main engine 350hp, Crossley. Side traveler built by Cochrane & Sone of Salby.

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ROSS MACKENZIE GEORGINA WILSON BOATBUILDING **WORKBOATS**

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Build of wood by Gerrard Brothers, Arbroath 1969

20,91ft., tonnage gross 84.30 nett 44.03.
Vessel extensively modernised July 1975 with new Caterpillar
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trawl which, Tenfjord hydraulic power steering gear, new deck shelter September 1976.

shelter September 1976.
Electronic aquipment owned: Decca 110 rader, Decca 420 autopilot, Selior SS8 radio, Mermald watchkeaper receiver.
Equipment hired: Decca Nevigator Mk.12, Decca Navigator Mk.21, Kelvin Hughes MS 44 with bottom lock, Furuno FRS 24 rader, Kelvin Hughes Foreland VHF., Selior 144 VHF. Vessel is fully fitted for soine, also with trawl gallows and bollards. Quantity of seine nets included in sale. Vessel mountime fishing and will be available for inspection at McDuff for 4-19 June.

Offers to be lodged with Mcres Duggle McPherson, Commercial Road, Buckle on or before noon on Friday 23rd June, 1978.

FOR SALE BY PRIVATE BARGAIN M.B. Heather Girl FR.398

Built of wood by Thomsons of Buckle in 1947. Overall length 52.3ft. Registered length 50.7ft. Breadth 17ft. Dopth 6ft. Tonnage, gross 33.53, natt 17.18. Gardner 6L3 Gardner engine 114hp (new pistons and liners 1977). Petters suxiliary engine. Mastra combined seine and trawi winch.

DECCA MRK 21 NAVIGATOR On Hire

Property

WOODSONS RADIO TELEPHONE MARCONI GRAPHETTE ECHOMETER
KELVIN HUGHES TYPE 17 RADAR Boat's

KELVIN HUGHES VHF RADIOS (2) DECCA SIMRAD CA2 FISHSCOPE The above vessel underwent an extensive overhead in 1968 including new wheelhouse, fishhold, accommodations and statuted installation 6.0.T. survey completed 1977. This vessel is equipped for traviling and is meantime fishing from Fraserburgh.

Arrangements for inspection can be made by applying to:

RICHARD IRVIN & SONS LTD., Shore Street, Freserburgh, Telephone No. 3102 with whom offers should be lodged.

MB "OCEAN HERALD" (BF.102)

Fitted with 152hp Gardner engine, Petters auxiliary, main engine haw crankshaft and completely overhauled in 1977. Sutherland sk speed same whom and Secoles coller, power block. Equipment owned Atlas monoscope, emergency R/T. Equipment hireb Decca Mk21, Koden flathgraph with bottom expansion recorder, Kelvin Hughes radar and echo sounder, VHF., Bellor R/T.

The vessel will be sold with a quantity of sains not gear. She is meantime fishing from Peterhead where she can be inspected by arrangement.

CLOSING DATE FOR OFFERS 24th JUNE TO: JOHN BROWN AND SONS LTD. 27 COMMERCIAL ROAD, BUCKIE, telephone: Buckle 32137.

MB "LOCH ERISORT" (SY.434)

Built of wood in 1968, overall length 60ft., breadth 18ft., depth

Kelvin TASS 280hp atepped down to 240hp new May 1977 along with gearbox, six ton Nor-which with centre berrel. Boat's property: MS29 sounder, coastal radio, Kelvin Hughes radar, watchkeeping receiver. On hire: VHF and Decce Navigator Mk12. Considerable amount of gear to be sold. ...

Vessel fishing from Stomoway, for examplements to view bon-tact North Minch Fish Selling Co., telephone: 0861 3358 with whom offers should be placed with by Friday 16th June 1978.

FOR SALE BY PRIVATE BARGAIN MFV "SUPREME" CN 180 437

30ft. grating lobster boat Ford
80ft. grating lobster boat Ford
118 Shore St. Freeschurgh
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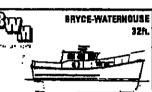
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Continued from Page 21

VESSELS FOR SALE



DUTCH beam trawler built 1953, steel, 73ft. x 19ft. x 10ft., 240hp Kromhout 750 rpm with 2:1 reduction, new whaleback 1974, rigged for beam trawling and stern trawling with net drum. Accommodation with five beam trawling and stern trawling with net drum. Accommodation with five berths, large mess deck, oil beating and radiators. Wheelhouse equipment owned: Keivin Hughes radar, Redifon single side radio, Furuno 350 sounder, Pye VHF. On hirs: Decca 21 and plotter. Electrics 110 and 24. Ship completely rewired. This ship is in good condition. Finance could be stranged. For sale with beam trawling gear only. £30,000. Telephone: Lowestoft 740103.



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FOR SALE 36th, sea angling boat 8.84 tons, recently undergone complete refit, now in immaculate condition, all essentials in forward cabin and wheelhouse, 120hp marine diesel with hydraulic gearbox, many extrasticulde, radio telephone, compass, echo sounder, rods, lifejackots, lifebuoys, electric winch, etc. Rigged for small trawl £7,950 or offers. For dotalls and inspection Deganwy Yacht Services Ltd., The Quay, Deganwy (STD U492) £3869.

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